SERVICE MANUAL

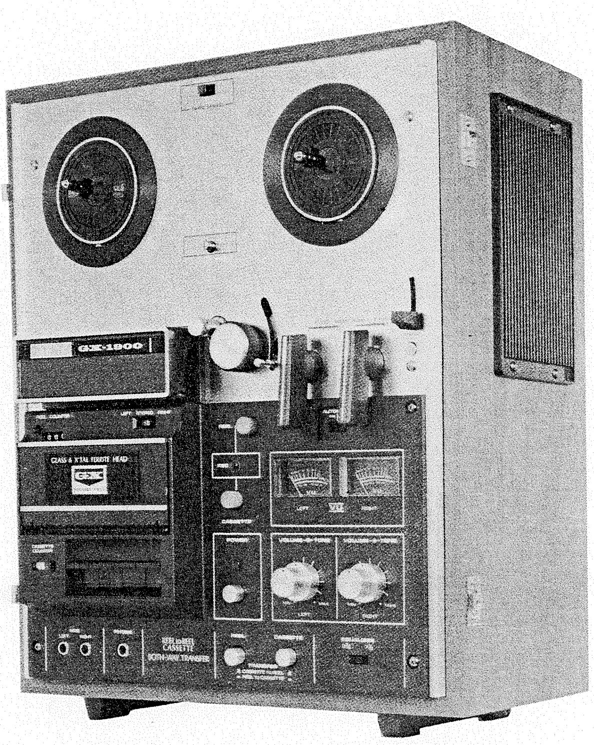
PARTS LIST

PRIDE IN QUALITY

AKAI STEREO TAPE RECORDER

MODEL GX-1900

ALSO APPLICABLE TO MODEL GX-1900D



REEL/CASSETTE COMBINATION STEREO TAPE RECORDER

MODEL GX-1900

ALSO APPLICABLE TO MODEL
GX-1900D STEREO TAPE DECK

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SECTION 1

SERVICE MANUAL

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I. SPECIFICATIONS

An asterisk next to a figure indicates the minimum guaranteed performance.

TRACK SYSTEM	Open reel	4-track, 2-channel stereo / monaural system	
	Cassette	4-track, 2-channel stereo system	
REEL CAPACITY		Up to 7" reel	
TAPE SPEED	Reel	7-1/2 and 3-3/4 ips ±1% (*±1.5%)	
	Cassette	1-7/8 ips ±1% (*±3%)	
WOW AND FLUTTER	Reel	Less than 0.12% RMS at 7-1/2 ips (*0.15%)	
		Less than 0.15% RMS at 3-3/4 ips (*0.25%)	
	Cassette	Less than 0.2% RMS (*0.3%)	
FREQUENCY RESPONSE	Reel	30 to 22,000 Hz ±3 dB (*40 to 20,000 Hz ±3 dB) at 7-1/2 ips	
		30 to 15,000 Hz ±3 dB (*40 to 14,000 Hz ±3 dB) at 3-3/4 ips	
	Cassette	40 to 15,000 Hz ±3 dB (*40 to 14,000 Hz ±3 dB)	
SIGNAL TO NOISE RATIO	Reel	Better than 50 dB (*48 dB)	
	Cassette	Better than 41 dB	
DISTORTION		Less than 2% (*3%), 1000 Hz “0” VU recording	
CROSS TALK	Reel	Better than 45 dB (Stereo)	
		Better than 65 dB (Monaural)	
	Cassette	Better than 25 dB	
ERASE RATIO		Better than 70 dB, 1,000 Hz +3 VU recording	
BIAS FREQUENCY		62 kHz ±5 kHz	
INPUTS	Mic input	0.5 mV Impedance: 5 kΩ	
	Line input	50 mV Impedance: 200 kΩ	
	Din input	50 mV (High), 3 mV (Low)	
OUTPUTS	Speaker output	10W/8Ω each (*5W/8Ω each, using a 250 Hz “0” VU recorded tape)	
	Line output	Reel: 1,228V ±1 dB, using a 250 Hz “0” VU recorded tape	
		Cassette: 1,228V ±1.5 dB, using a 333 Hz “0” VU recorded tape	
RECORDING CAPACITY	Reel	60 min. stereo recording, using a 1,200 ft. tape at 7-1/2 ips	
	Cassette	60 min. stereo recording, using a C-60 tape	
FAST FORWARD AND REWIND TIME			
	Reel	95/76 sec., using a 1,200 ft. tape at 50/60 Hz	
	Cassette	65/52 sec., using a C-60 tape at 50/60 Hz	
MOTOR		Hysteresis synchronous 2-speed motor Tape: HMZ-16SX Revolutions: 3,000/1,500 r.p.m. at 50 Hz 3,600/1,800 r.p.m. at 60 Hz	
HEADS	Reel	**Recording/Playback Head** In-line 4-track 2-channel Rec/P.B. Head Gap: 2/1,000 mm Impedance: 1,250Ω ±15% at 1,000 Hz **Erase Head** In-line 4-track 2-channel Erase Head Gap: 0.6 mm Impedance: 200Ω ±5% at 100 kHz	
	Cassette	**Recording/Playback Head** In-line 4-track 2-channel Glass and Ferrite Rec/P.B. Head Gap: 1.4 to 1.9 μm Impedance: 1,200Ω ±20% at 1,000 Hz **Erase Head** In-line 4-track 2-channel Erase Head Gap: 0.3 mm Impedance: 195Ω ±10% at 100 kHz	
TRANSISTORS		8 . . . 2SC458LG (C)	2 . . . 2SC871 (E, F)
		2 . . . 2SC945 (Q, R)	2 . . . 2SC971 (2, 3) (Red)
		2 . . . 2SC1098 (K, L, M)	
IC		2 . . . LD-3141	2 . . . STK-011 (GX-1900 only)
DIODES		1 . . . 10DC-1 (Black)	5 . . . 10D-1 or V06B (GX-1900 only)
		5 . . . 1N34A	1 . . . RD-24AM or 1S339A
POWER SUPPLY		100 to 240V AC, 50/60 Hz	
POWER CONSUMPTION		65W (GX-1900D: 60W)	
INSULATION RESISTANCE		More than 50 MΩ	
INSULATION DURABILITY		1,000V AC for more than 1 minute duration	
DIMENSIONS		375 (W) x 435 (H) x 248 (D) mm (15" x 17.5" x 9.9")	
WEIGHT		20.5 kg (45 lbs.) GX-1900	
		18.4 kg (40.5 lbs.) GX-1900D	

Remark: Specifications subject to change without notice.

II. MEASURING METHOD

1. TAPE SPEED DEVIATION

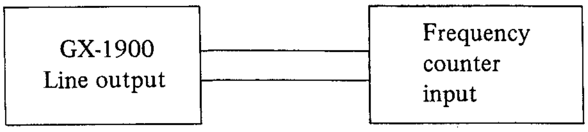

GX-1900
Line output
Frequency
counter
input

Fig. 1

As shown in Fig. 1, connect a Frequency Counter to the Line Output of Model GX-1900. Take a frequency counter reading at the beginning, middle, and end of tape winding during playback. The maximum value of these respective readings will represent tape speed deviation.

2. WOW AND FLUTTER

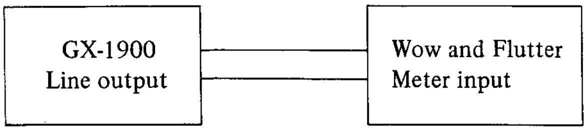

GX-1900
Line output
Wow and Flutter
Meter input

Fig. 2

Method A

As shown in Fig. 2, connect the Line Output of Model GX-1900 to the Input of a Wow and Flutter Meter. Use a 3,000 Hz pre-recorded test tape and take a wow and flutter meter reading at the beginning, middle, and end of tape winding. The maximum value of these respective readings will represent the wow and flutter.

Method B

Supply a 3,000 Hz sine wave signal from an Audio Frequency Oscillator and make a recording on a blank tape at the beginning, middle, and end of tape winding. Rewind and play tape. Measure wow and flutter with a Wow and Flutter Meter. (The wow and flutter value of Method B will be close to twice that of Method A.)

3. FREQUENCY RESPONSE

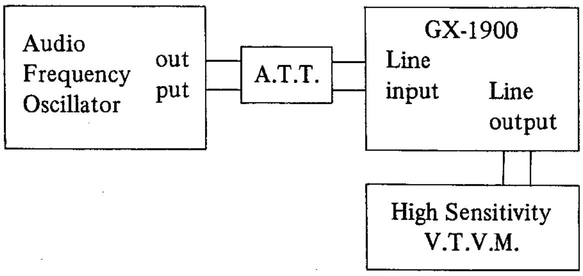

Audio
Frequency
Oscillator
out
put
A.T.T.
GX-1900
Line
input
Line
output
High Sensitivity
V.T.V.M.

Fig. 3

For measuring frequency response, connect instruments as shown in Fig. 3 and proceed as follows.

1) Supply a 1,000 Hz sine wave to the Line Input of Model GX-1900 from an Audio Frequency Oscillator through an Attenuator. Set recorder to recording mode and turn recording level volume control to maximum. Adjust Attenuator to obtain a +4 dB V.T.V.M. reading.
2) Under conditions described in 1) above, re-adjust Attenuator so that the Line Output is -16 dB, and record 40 to 14,000 Hz spot frequencies.
3) Rewind tape and playback from the beginning. Take V.T.V.M. spot frequency readings and plot values on a graph.

Note: When measuring frequency response, new tape should be used.

4. SIGNAL TO NOISE RATIO

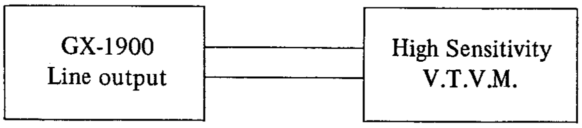

GX-1900
Line output
High Sensitivity
V.T.V.M.

Fig. 4

As shown in Fig. 4, connect a High Sensitivity V.T.V.M. to the Line output of Model GX-1900. Playback a 250 Hz (333 Hz cassette) "0" VU pre-recorded test tape and measure the output. Then remove the tape and measure the noise level under the same condition. Convert each of the measured values into decibels.

5. TOTAL HARMONIC DISTORTION FACTOR

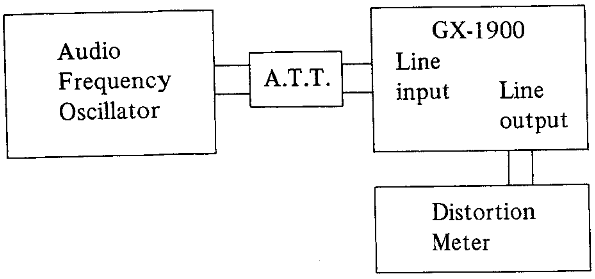


Fig. 5

Connect the measuring instruments as shown in Fig. 5 and record a 1,000 Hz sine wave signal at "0" VU. Playback the resultant signal and measure the overall distortion factor. Measure the noise level of the tape recorder without the tape. Connect the audio frequency oscillator directly to the distortion meter for measurement of the distortion factor of the oscillator. The required distortion factor can be obtained from the results of the above measurement by the following formula:

$$d_0 = d - d_1 - d_2$$

where, d_0 – Required distortion factor
d – Overall distortion factor
d_1 – Noise level.
d_2 – Distortion factor of the oscillator

Note: When measuring the distortion factor, new tape should be used.

6. CROSS TALK (Cross talk between the tracks)

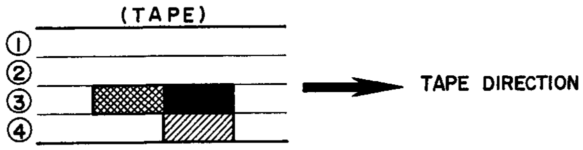


Fig. 6

As shown in Fig. 6, first record a 1,000 Hz sine wave signal on Track No. 3 at +3 VU level. Next, record under a non-input condition. Then, playback the tape on Tracks No. 3 and 4 through the B.P.F. (band pass filter sensitivity .... 1:1) and obtain a ratio between the two from the following formula:

$$C = 20 \log \frac{E_0}{E_2 - E_1} \text{ (dB)}$$

where, C – Desired cross talk ratio (dB)
E_0 – 1,000 Hz signal output level ■
E_2 – 1,000 Hz cross talk level ▨
E_1 – Non-input signal recorded level ▩

7. ERASE RATIO

As shown in Fig. 4, connect a High Sensitivity V.T.V.M. to the Line Output of Model GX-1900. Playback a virgin tape and take a V.T.V.M. reading of the output level. Next, record a 1,000 Hz sine wave signal at +3 dB, then playback this recorded signal and take a V.T.V.M. reading of the output level. Next, using this pre-recorded tape, record under a non-input condition and take a reading of the noise level output of the erased signal and obtain a ratio between the two from the following formula:

$$Er = 20 \log \frac{E_0}{E_2 - E_1} \text{ (dB)}$$

where, Er – Desired erase ratio (dB)
E_0 – 1,000 Hz signal output level
E_2 – Non-input signal recorded level
E_1 – Virgin tape noise output level

8. POWER OUTPUT

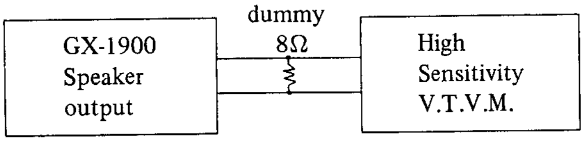


Fig. 7

As shown in Fig. 7, connect an 8Ω dummy load resistor to the speaker output of Model GX-1900 and connect this terminal to a High Sensitivity V.T.V.M. Playback a 250 Hz "0" VU pre-recorded test tape and take a V.T.V.M. reading of the output level. The resultant output can be obtained from the results of the above measurement by using the following formula:

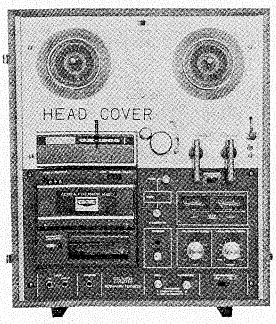
$$P = \frac{E^2}{R} \text{ (W)}$$

where, P – Desired power output (watts)
E – Measured voltage (R.M.S.)
R – 8Ω

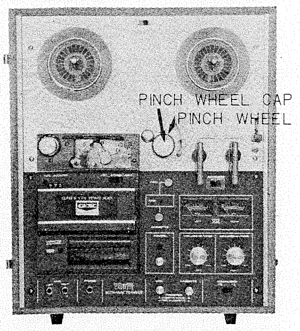
III. DISMANTLING OF TAPE TRANSPORT UNIT & AMPLIFIER

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

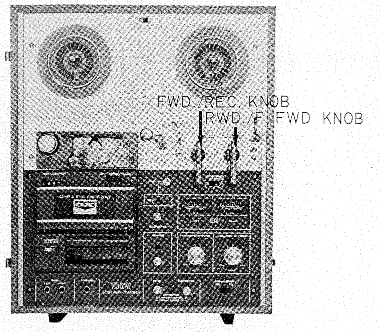
1



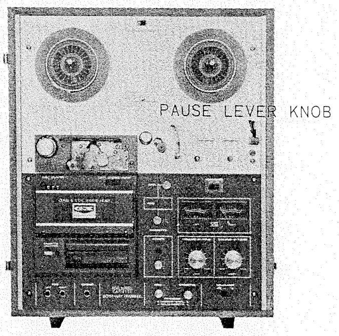
2


PINCH WHEEL CAP
PINCH WHEEL

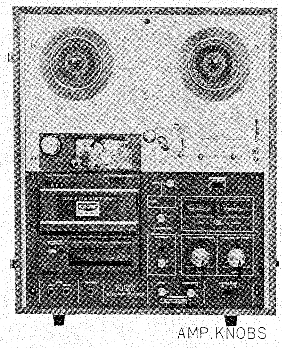
3


FWD./REC. KNOB
RWD./F FWD KNOB

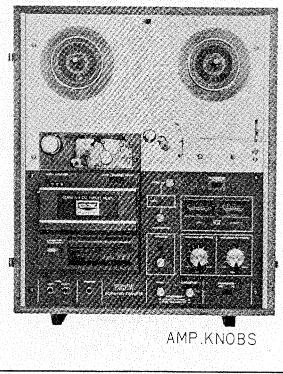
4


PAUSE LEVER KNOB

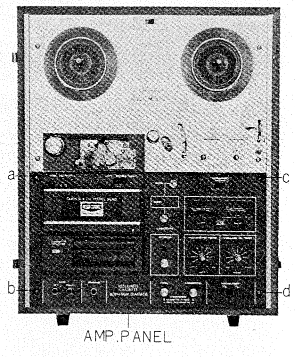
5



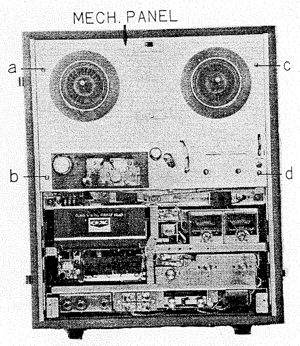
6



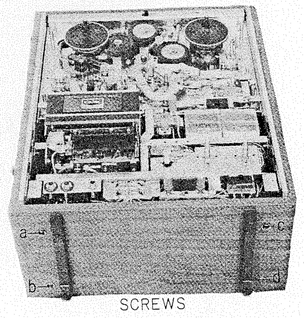
7


a
c
b
d
AMP.PANEL

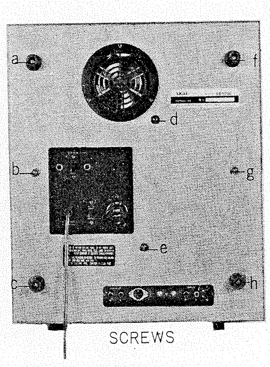
8


MECH. PANEL
a
c
b
d

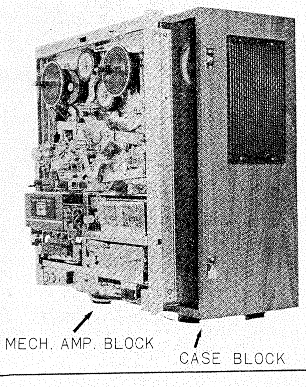
9


a
c
b
d
SCREWS

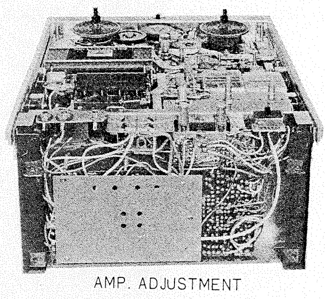
10


a
f
d
b
g
e
c
h
SCREWS

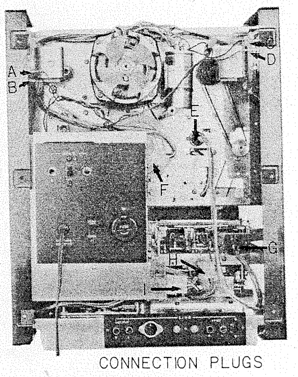
11


MECH. AMP. BLOCK
CASE BLOCK

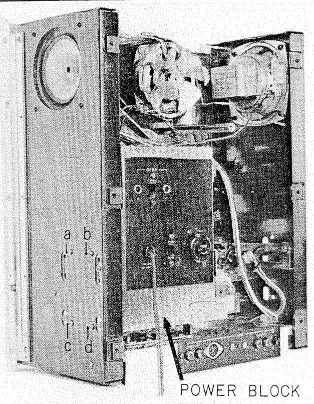
12


AMP. ADJUSTMENT

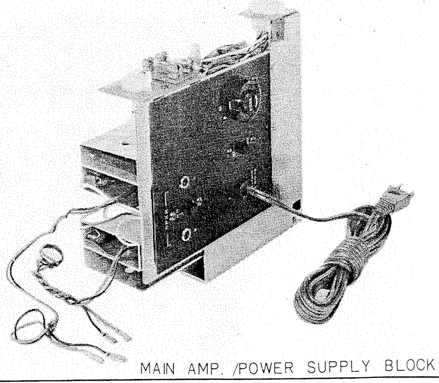
13


A
B
D
E
F
G
H
CONNECTION PLUGS

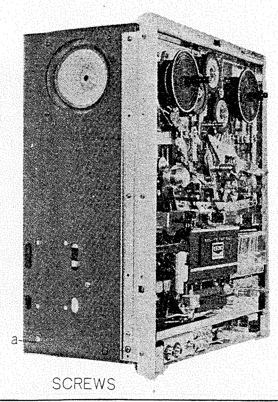
14


a
b
c
d
POWER BLOCK

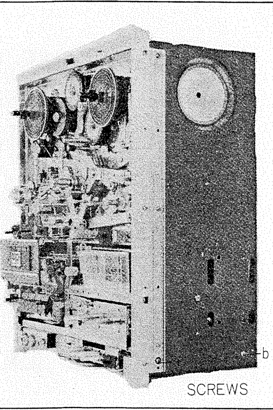
15


MAIN AMP. /POWER SUPPLY BLOCK

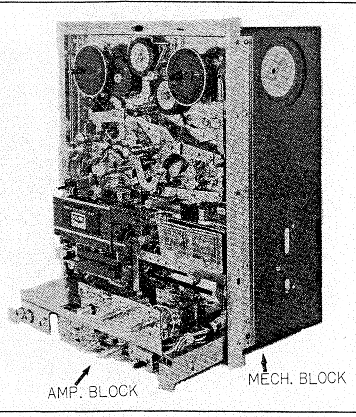
16



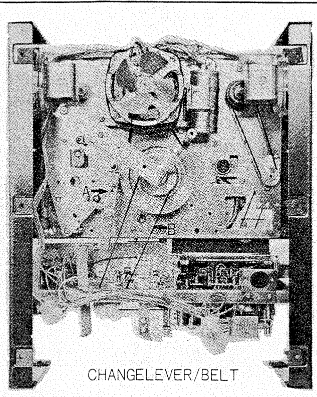
17



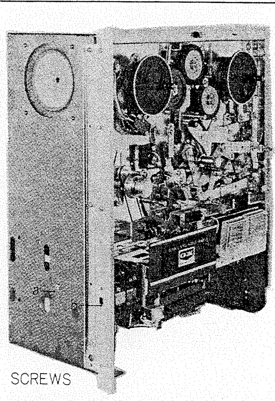
18


AMP. BLOCK
MECH. BLOCK

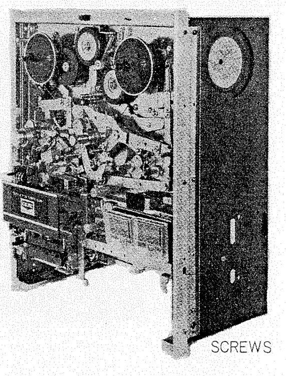
19


A
B
CHANGELEVER/BELT

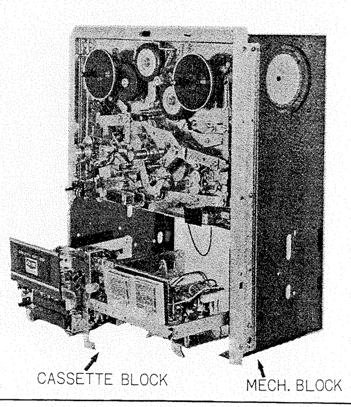
20



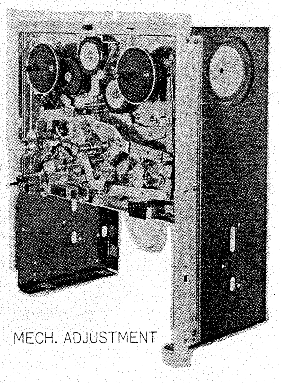
21



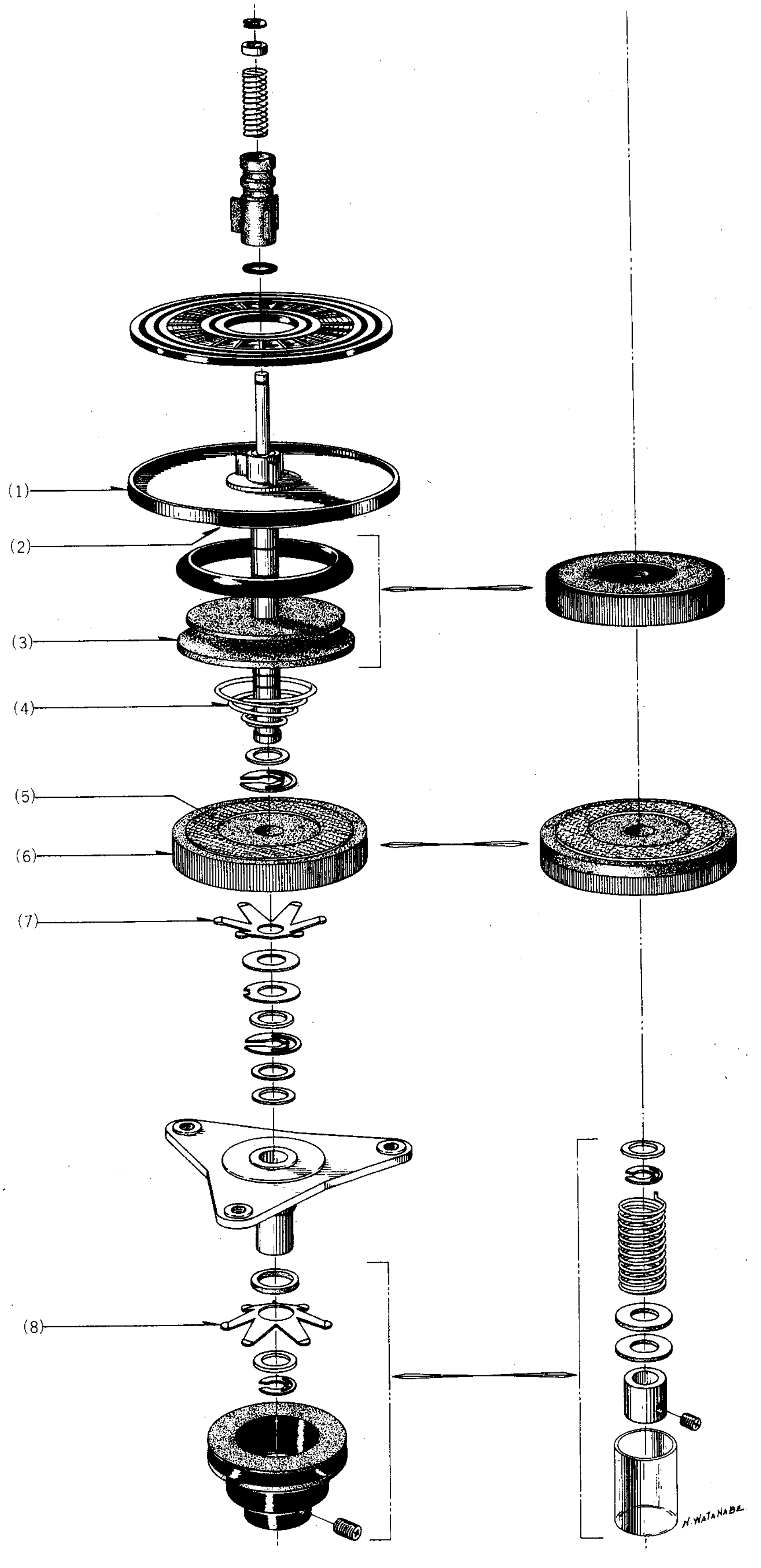
22


CASSETTE BLOCK
MECH. BLOCK

23


MECH. ADJUSTMENT

IV. OPEN REEL MECHANISM ADJUSTMENTS


(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
N. WATANABE

1. PINCH WHEEL ADJUSTMENT

It is important that the pinch wheel shaft be kept in perfect alignment with the capstan shaft. Proper pinch wheel pressure is between 1,000 and 1,150 grams when the unit is operated at the tape speed of 7-1/2 ips. Any deviation from this specification will result in wow and flutter. Check pinch wheel pressure with a spring scale, and if necessary, adjust the pinch wheel load spring.

2. SUPPLY REEL SHAFT ASSEMBLY ADJUSTMENT (See Fig. 8 at left)

Felt clutch material (2) is used between the lower side of the reel table base plate (1) and the rewind pulley (3) to protect recording tape from excessive tension during rewind operation. To check the amount of friction of this part, install a 5-inch reel with a 60 mm diameter tape, and gently pull the end of the tape upward with a spring scale. Adjust the conical spring (4) so that the amount of tension is kept between 400 and 500 grams. Other felt clutch material (5) is attached to the supply roller (6) to provide proper slippage during FWD and REC operation. The procedure for checking friction of this part is the same as the foregoing, and between 80 and 100 grams of tension gives best result. Adjust the spring (7) just under the supply roller (6). When the unit is set to fast forward operation, the amount of friction will decrease to from 15 to 20 grams. Check to see whether this is satisfactory. If not, adjust the spring plate (8) and the pressure of the pulley (9)

3. TAKE-UP REEL SHAFT ASSEMBLY ADJUSTMENT (See Fig. 8 at right)

Felt clutch material (2) is attached to the bottom side of the reel table base plate (1) so that the recording tape will not stretch during fast forward operation due to excessive tension. To check the amount of friction of this part, install a 5-inch reel with a 60 mm diameter tape, and gently pull the end of tape upward with a spring scale. Adjust the conical spring (4) so that the amount of tension at this part is kept between 400 and 500 grams. Other felt clutch material (10) is attached to the take-up roller (11). This is to provide proper slippage during FWD or REC operation. The procedure for checking friction of this part is the same as the foregoing, and between 150 and 180 grams of friction provides the best results. Adjust the spring plate (7) just under the take-up roller (11). When the unit is set to rewind operation, the amount of friction of this part will decrease to from 15 to 20 grams. Check to see whether this is satisfactory. If not, adjust the spring (12) and the pressure of the set sleeve (13).

V. CASSETTE MECHANISM ADJUSTMENTS

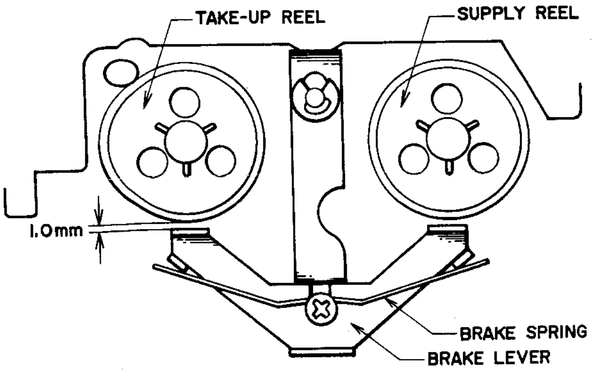


Fig. 9

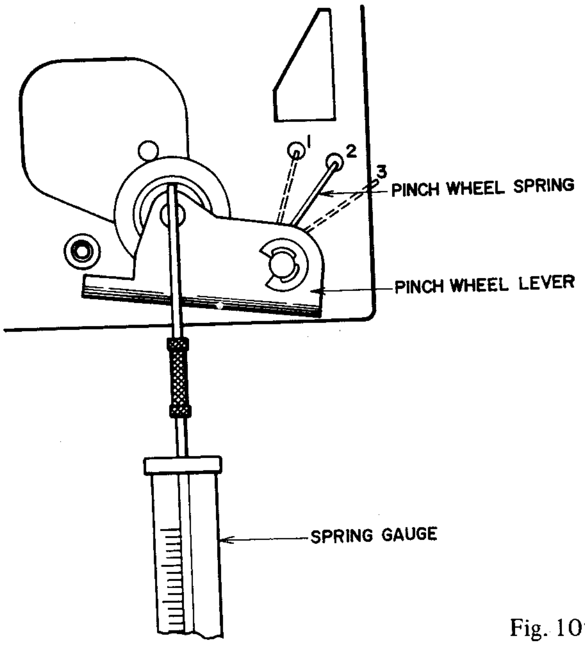


Fig. 10

1. BRAKE ADJUSTMENT

If operation of brake is weak when stopped from Playback, Fast Forward and Rewind mode, strengthen by bending Brake spring. Further, during each mode, the brake lever must be separated from the rubber surface of both reel tables by more than 1 mm.

2. PINCH WHEEL PRESSURE ADJUSTMENT

1) With recorder at playback mode, connect a 0 to 500 gram Spring Gauge to the pinch wheel lever as shown in Fig. 10 and measure the pinch wheel pressure.
2) Proper pinch wheel pressure is between 280 to 300 grams. Pinch wheel pressure can be adjusted by changing the position of the pinch wheel spring.

3. MICRO SWITCH (SW 11) POSITION ADJUSTMENT (See Figs. 11 & 12)

Loosen screws (A) (B) and adjust position of micro-switch plate by moving to left and right so that Micro Switch (SW 11) functions perfectly when the operating keys are depressed.

4. STOP CHIP POSITION ADJUSTMENT

Adjust Lock Rod Nut (C) so that the recording safety lever does not function during cassette playback mode.

5. AUTOMATIC STOP SOLENOID POSITION ADJUSTMENT

Loosen Solenoid fixation screws (D) (E) and adjust position of Solenoid by moving to left and right so that when the tape is stopped from each mode, the Plunger of Solenoid SL-1 pulls Keyboard Lever A for stop mode.

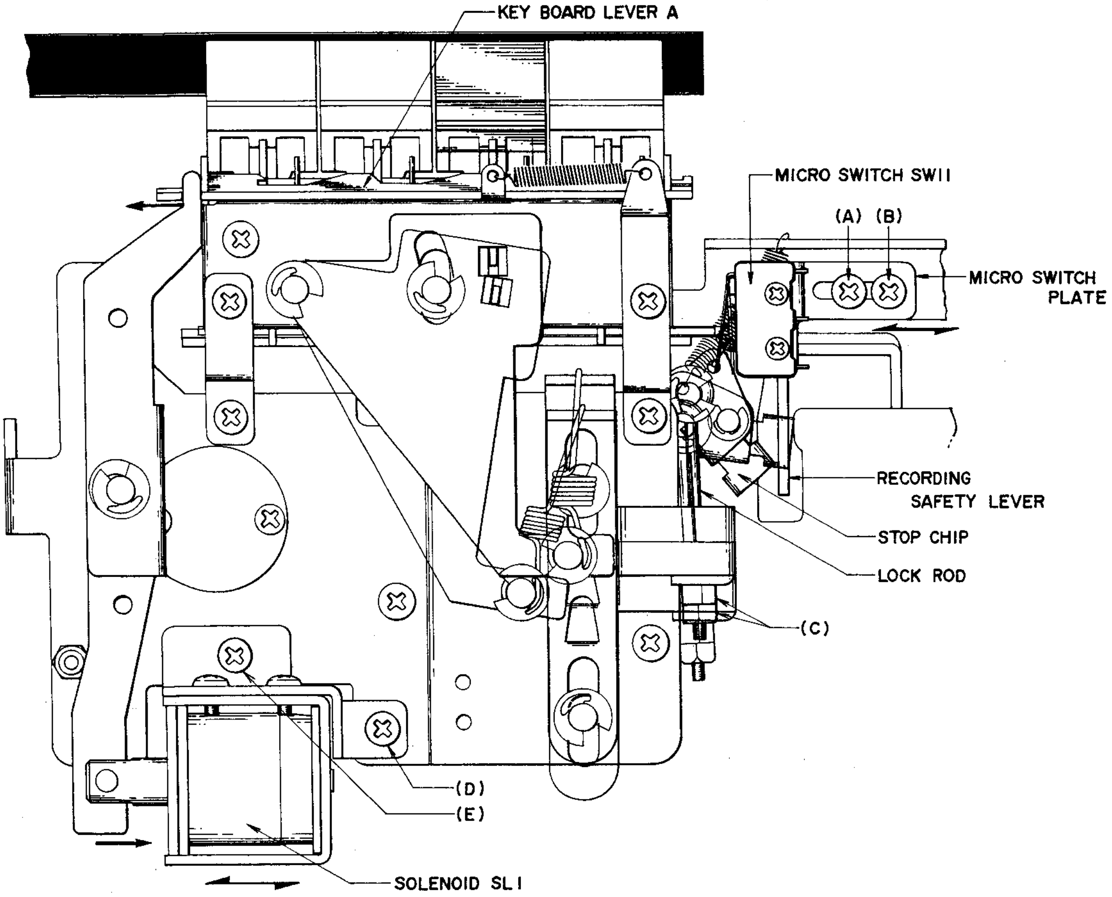

KEY BOARD LEVER A
MICRO SWITCH SW11
(A) (B)
MICRO SWITCH PLATE
RECORDING SAFETY LEVER
STOP CHIP
LOCK ROD
(C)
(D)
(E)
SOLENOID SL1

Fig. 11 "Stop" mode

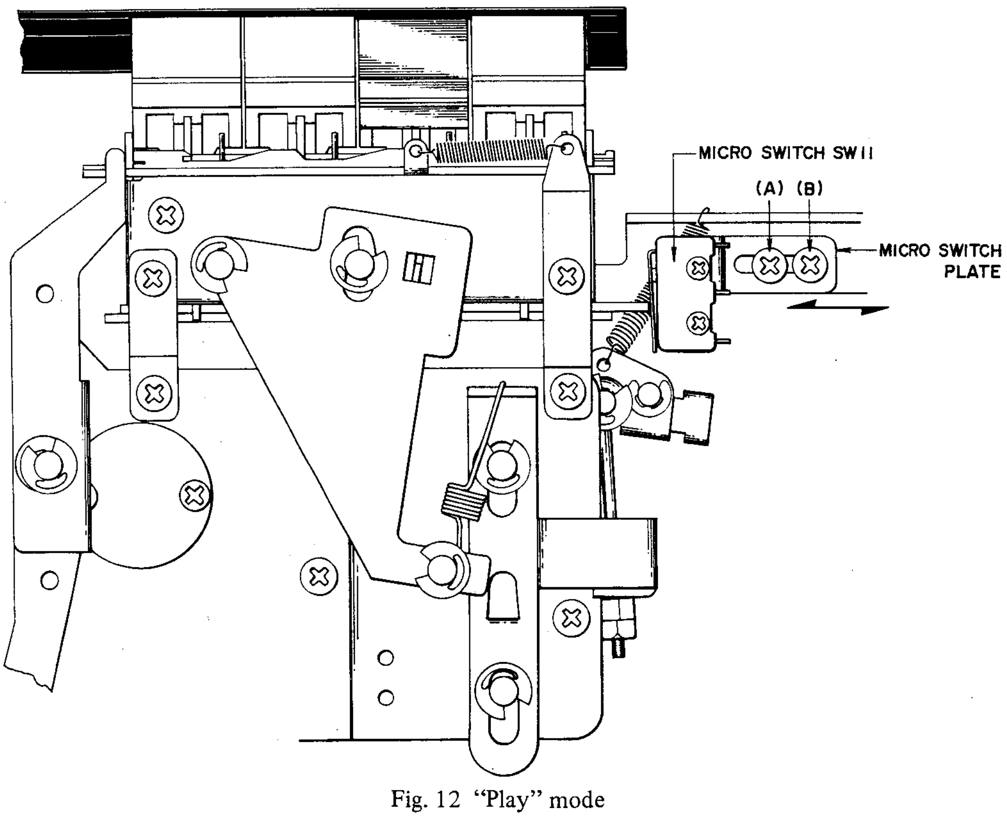

MICRO SWITCH SW11
(A) (B)
MICRO SWITCH PLATE

Fig. 12 "Play" mode

VI. OPEN REEL HEAD ADJUSTMENTS

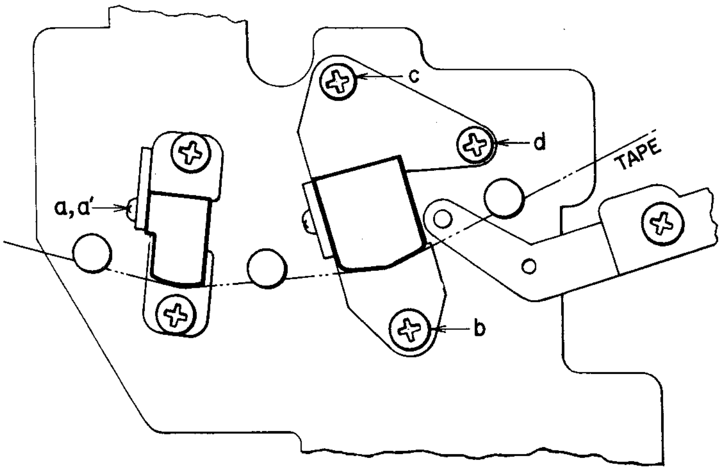


Fig. 13

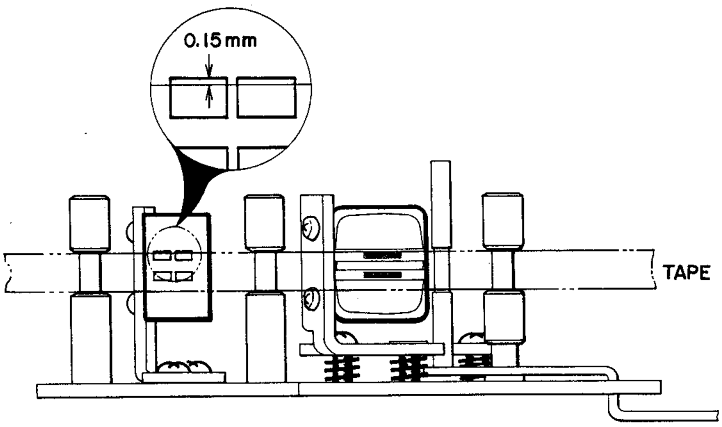


Fig. 14

1. HEAD HEIGHT ADJUSTMENTS (See Figs. 13 & 14)

1) Erase Head
Loosen Erase Head screws (a) (a') and adjust erase head height, so that the upper edge of the tape is 0.15 mm lower than the upper edge of the upper erase head core.

2) Recording/Playback Head
Adjust Recording/Playback Head height by turning Recording/Playback Head Height Adjustment screws (b) (c) to left and right until the width between the upper edge of channel 1 head core and the upper edge of the tape is equal.

2. RECORDING/PLAYBACK HEAD SLANT ADJUSTMENT (See Figs. 13 & 14)

Adjust Recording/Playback Head slant by turning screws (b) (c) to left and right so that the Recording/Playback head contacts the tape surface at a right angle.

3. RECORDING/PLAYBACK HEAD AZIMUTH ALIGNMENT ADJUSTMENTS

Connect a High Sensitivity V.T.V.M. (Model 161A) to the line output and playback a Head Alignment test tape (8,000 Hz 3-3/4 ips. at 7-1/2 ips.). Adjust screw (d) by turning to left and right until the various line outputs are maximum.

4. Repeat adjustments outlined in Items 1, 2, and 3 above 2 or 3 times to obtain optimum adjusted condition.

VII. CASSETTE HEAD ADJUSTMENT

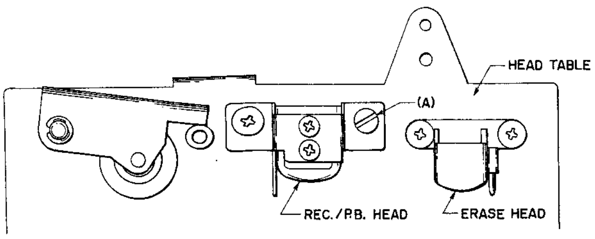


Fig. 15

RECORDING/PLAYBACK HEAD AZIMUTH ADJUSTMENT (See Fig. 15)

Connect a High Sensitivity V.T.V.M. (Model 161A) to the line output and playback a 10 kHz test tape. Adjust screw (A) by turning to left and right until the various line outputs are maximum.

VIII. AMPLIFIER ADJUSTMENT

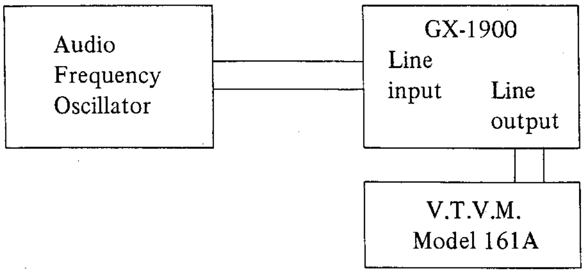


Fig. 16

1. REEL PLAYBACK LEVEL ADJUSTMENT (See Figs. 16 & 17)

1) Connect a High Sensitivity V.T.V.M. (Model 161A) to the line output.
2) Set main volume control (10k A) to maximum.
3) Playback a 250 Hz "0" VU pre-recorded test tape and turn Semi-fixed resistor VR 1 and VR 1b (2k B) to obtain a +4 dB reel playback level.

2. REEL RECORDING LEVEL ADJUSTMENT (See Figs. 16 & 17)

1) Load a blank test tape. Set recorder to recording mode and set main volume control (10k A) to maximum.
2) Supply a 1,000 Hz sine wave signal from an Aduio Frequency Oscillator through an Attenuator to the line input, adjust the Attenuator so that the V.T.V.M. indicates +4 dB (VU meter indicates "0" VU).
3) After a few seconds of recording, playback the recorded tape from the starting point and check the V.T.V.M. indication.
4) If the line output is not +4 dB, repeat recording level adjustment procedure from Item 2), and adjust Semi-fixed resistor VR 3 and VR 3b (10k B), to obtain a +4 dB recording level.

3. CASSETTE PLAYBACK LEVEL ADJUSTMENT

1) Set mode switch to "CASSETTE" and playback a 333 Hz "0" VU pre-recorded test tape.
2) Follow Item 1 of Reel playback level adjustment procedure and adjust VR 2 and VR 2b (2k B) to obtain a +4 dB cassette playback level.

4. CASSETTE RECORDING LEVEL ADJUSTMENT

1) Follow Item 2 of Reel recording level adjustment procedure.
2) Load a blank low noise test tape and adjust Semi-fixed resistor VR 4 and VR 4b (10k B) so that the recording level is +4 dB.

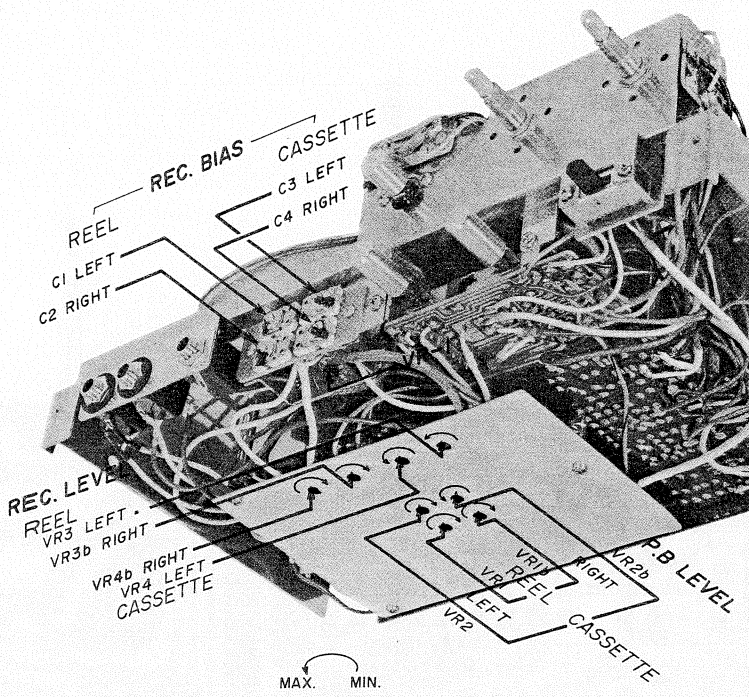

REC. BIAS
REEL
C1 LEFT
C2 RIGHT
CASSETTE
C3 LEFT
C4 RIGHT
REC. LEVEL
REEL
VR3 LEFT
VR3b RIGHT
VR4b RIGHT
VR4 LEFT
CASSETTE
P.B LEVEL
VR2b
RIGHT
VR1
REEL
VR
LEFT
VR2
CASSETTE
MAX.
MIN.

Fig. 17

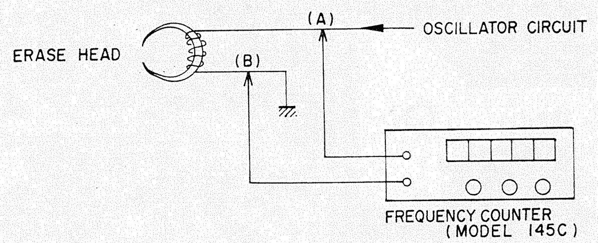

ERASE HEAD
(A)
(B)
OSCILLATOR CIRCUIT
FREQUENCY COUNTER
(MODEL 145C)

Fig. 18

5. REEL RECORDING BIAS VOLTAGE ADJUSTMENT (FREQUENCY RESPONSE ADJUSTMENT)

Playback the 1,000 Hz and 10,000 Hz signals recorded in Frequency Response Measuring Method procedure and adjust Bias Adjustment Semi-fixed condenser C1 and C2 (70 PF) so that the output level of these two frequencies are equal. The Bias voltage at this time is around 16V AC.

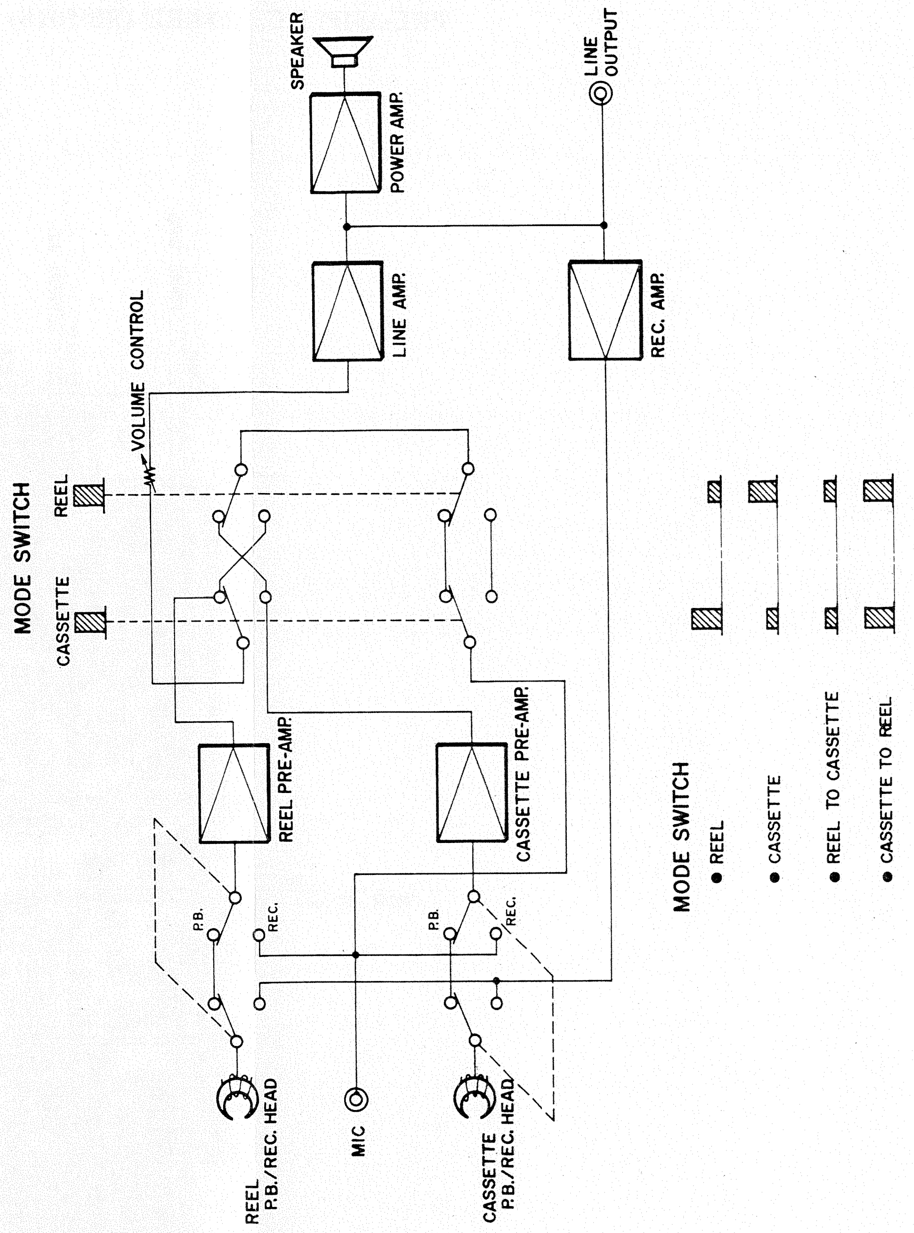
6. CASSETTE RECORDING BIAS VOLTAGE ADJUSTMENT (FREQUENCY RESPONSE ADJUSTMENT)

1) Follow Item 4 of Reel recording bias voltage adjustment procedure.
2) First adjust VR 1 (100k B) and next adjust Semi-fixed condenser C3 and C4 (70 PF) so that the output of these two frequencies are equal. The Bias voltage at this time is between 4 to 20V AC.

7. RECORDING BIAS FREQUENCY ADJUSTMENT

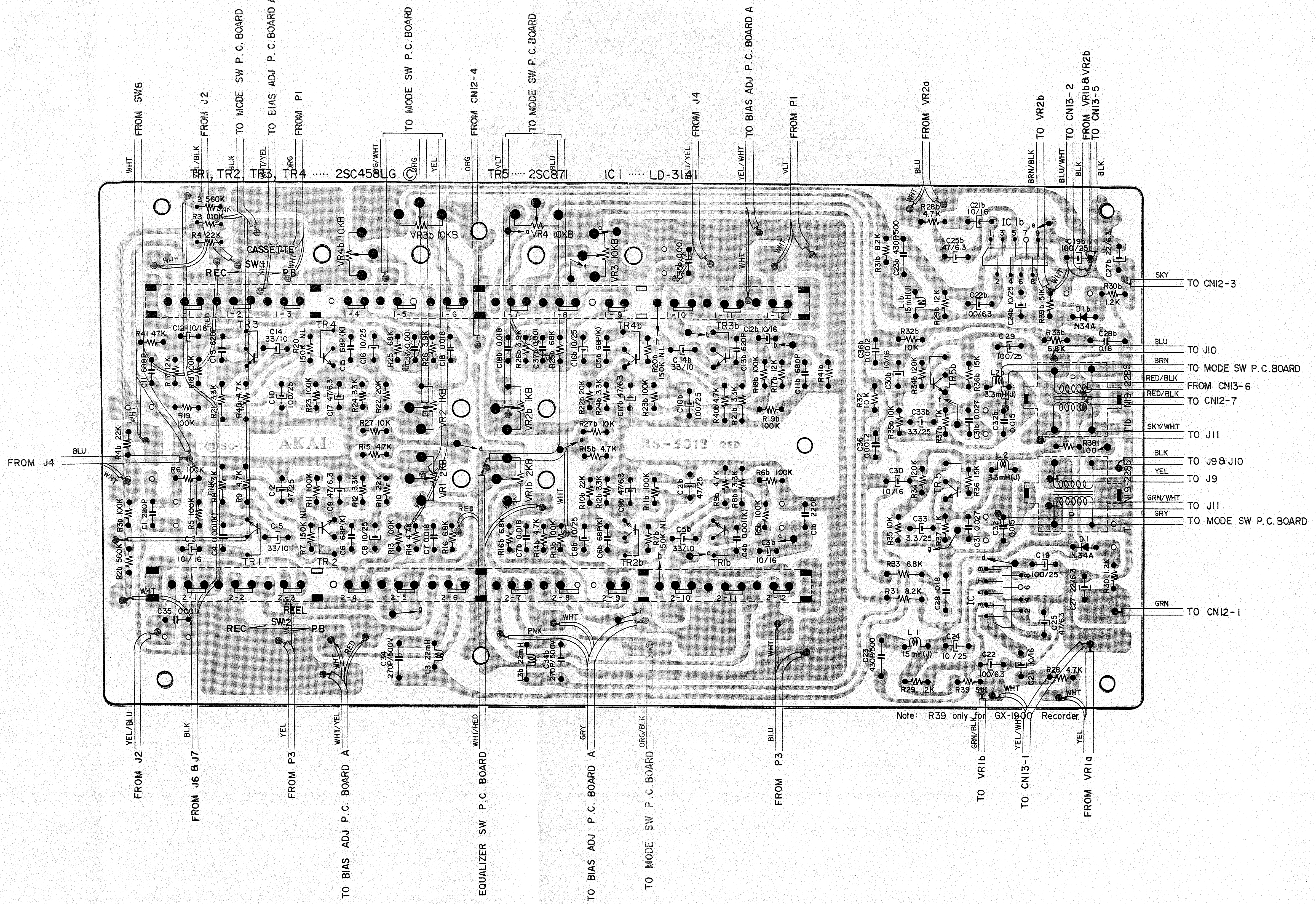
Connect a Frequency Counter to points (A) and (B) in Fig. 18 of the Erase Head and read the frequency indication. If the Frequency counter reading is 62 ±5 kHz, the recording bias frequency is correct. If the recording bias frequency is incorrect, it can be adjusted by changing the value of condenser C 402 (2000P 500 WV) of the oscillator circuit.

IX. BLOCK DIAGRAM OF TRANSFER SYSTEM


SPEAKER
POWER AMP.
LINE OUTPUT
LINE AMP.
REC. AMP.
VOLUME CONTROL
MODE SWITCH
REEL
CASSETTE
REEL PRE-AMP.
CASSETTE PRE-AMP.
P.B.
REC.
P.B.
REC.
REEL P.B./REC. HEAD
MIC
CASSETTE P.B./REC. HEAD
MODE SWITCH
● REEL
● CASSETTE
● REEL TO CASSETTE
● CASSETTE TO REEL

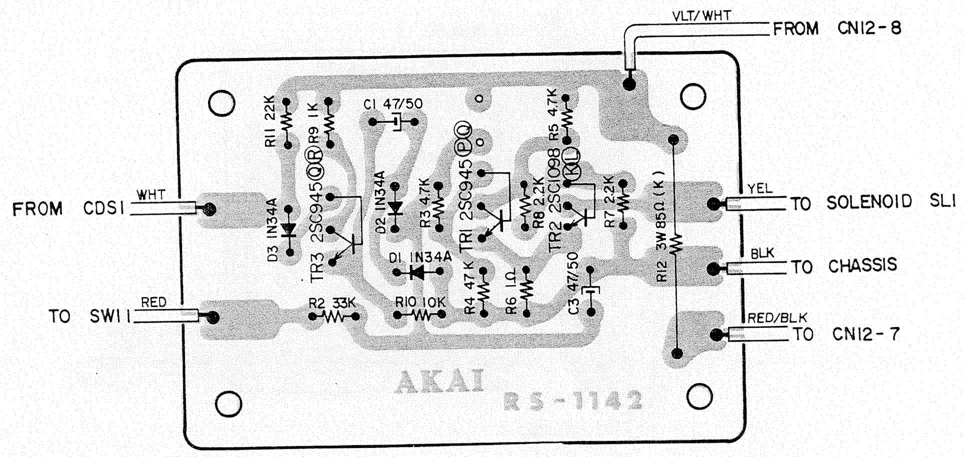
X. COMPOSITE VIEWS OF COMPONENTS

PRE-AMP. P.C. BOARD (RS-5018)

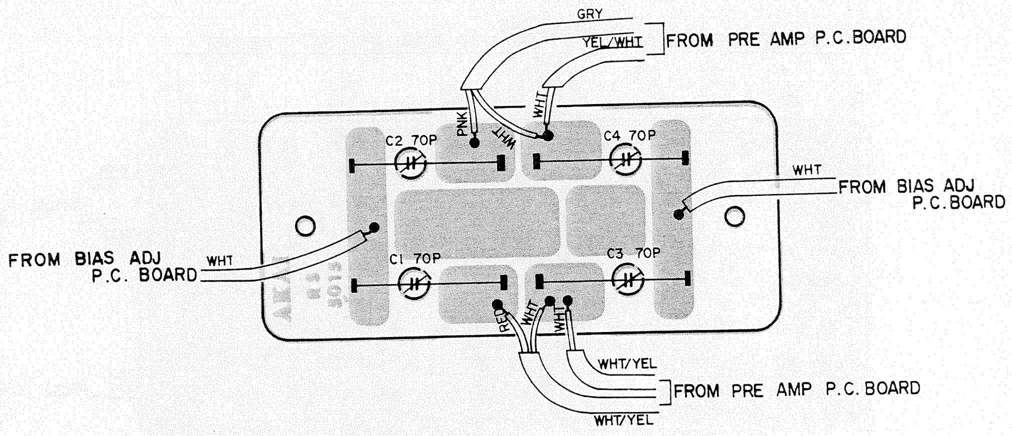

TR1, TR2, TR3, TR4 ····· 2SC458LG Ⓒ
TR5 ····· 2SC871
IC1 ····· LD-3141
FROM SW8
FROM J2
TO MODE SW P.C. BOARD
TO BIAS ADJ P.C. BOARD A
FROM P1
TO MODE SW P.C. BOARD
FROM CN12-4
TO MODE SW P.C. BOARD
FROM J4
TO BIAS ADJ P.C. BOARD A
FROM P1
FROM VR2a
TO VR2b
TO CN13-2
FROM VR1b & VR2b
TO CN13-5
TO CN12-3
TO J10
TO MODE SW P.C. BOARD
FROM CN13-6
TO CN12-7
TO J11
TO J9 & J10
TO J9
TO J11
TO MODE SW P.C. BOARD
TO CN12-1
FROM J4
FROM J2
FROM J6 & J7
FROM P3
TO BIAS ADJ P.C. BOARD A
TO EQUALIZER SW P.C. BOARD
TO BIAS ADJ P.C. BOARD A
TO MODE SW P.C. BOARD
FROM P3
TO VR1b
TO CN13-1
FROM VR1a
WHT
BLU
BLK
YEL
ORG
RED
GRN
GRY
PNK
SKY
YEL/BLU
WHT/YEL
WHT/RED
ORG/BLK
GRN/BLK
YEL/WHT
BRN
RED/BLK
SKY/WHT
GRN/WHT
BRN/BLK
BLU/WHT
AKAI
RS-5018 2ED
CASSETTE
SW1
REC
PB
REEL
SW2
VR3b 10KB
VR4 10KB
VR4b 10KB
VR3 10KB
VR2 1KB
VR2b 1KB
VR1 2KB
VR1b 2KB
IC1b
IC1
TR1
TR2
TR3
TR4
TR1b
TR2b
TR3b
TR4b
TR5
TR5b
T1b
T1
N19-228S
D1 IN34A
D1b IN34A
L1 15mH(J)
L1b 15mH(J)
L2 3.3mH(J)
L2b 3.3mH(J)
L3 22mH
L3b 22mH
C34 270P/500V
C34b 270P/500V
C35 0.001
C35b 0.001
C23 430P/500
C23b 430P/500
R2 560K
R3 100K
R4 22K
R41 47K
R19 100K
R28 4.7K
R28b 4.7K
R29 12K
R39 51K
R30 1.2K
R30b 1.2K
R33 6.8K
R31 8.2K
R38 100

Note: R39 only for GX-1900 Recorder.

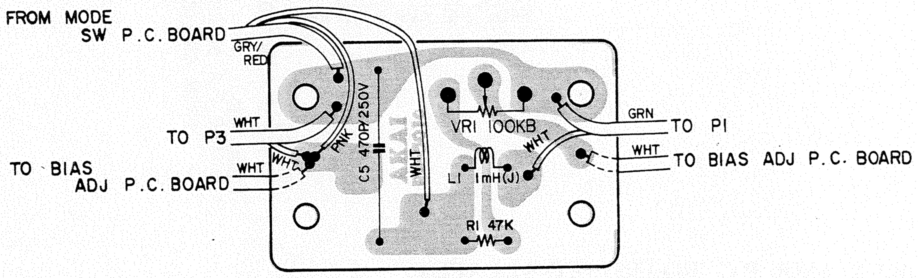
SYS. CON. P.C. BOARD (RS-1142)


VLT/WHT
FROM CN12-8
FROM CDS1
WHT
TO SW11
RED
R11 22K
R9 1K
C1 47/50
D3 1N34A
TR3 2SC945 Ⓠ Ⓡ
D2 1N34A
R3 4.7K
TR1 2SC945 Ⓟ Ⓠ
R5 4.7K
R8 2.2K
TR2 2SC1098 Ⓚ Ⓛ
R7 2.2K
R12 3W 85Ω (K)
D1 1N34A
R4 47K
R6 1Ω
C3 47/50
R2 33K
R10 10K
YEL
TO SOLENOID SL1
BLK
TO CHASSIS
RED/BLK
TO CN12-7
AKAI
RS-1142

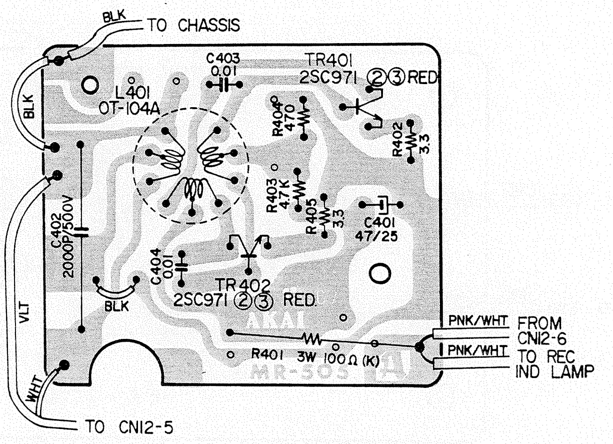
BIAS ADJUST P.C. BOARD A (RS-5015)


GRY
YEL/WHT
FROM PRE AMP P.C.BOARD
PNK
WHT
WHT
C2 70P
C4 70P
WHT
FROM BIAS ADJ P.C.BOARD
FROM BIAS ADJ P.C. BOARD
WHT
C1 70P
C3 70P
RED
WHT
WHT
WHT/YEL
FROM PRE AMP P.C. BOARD
WHT/YEL
AKAI

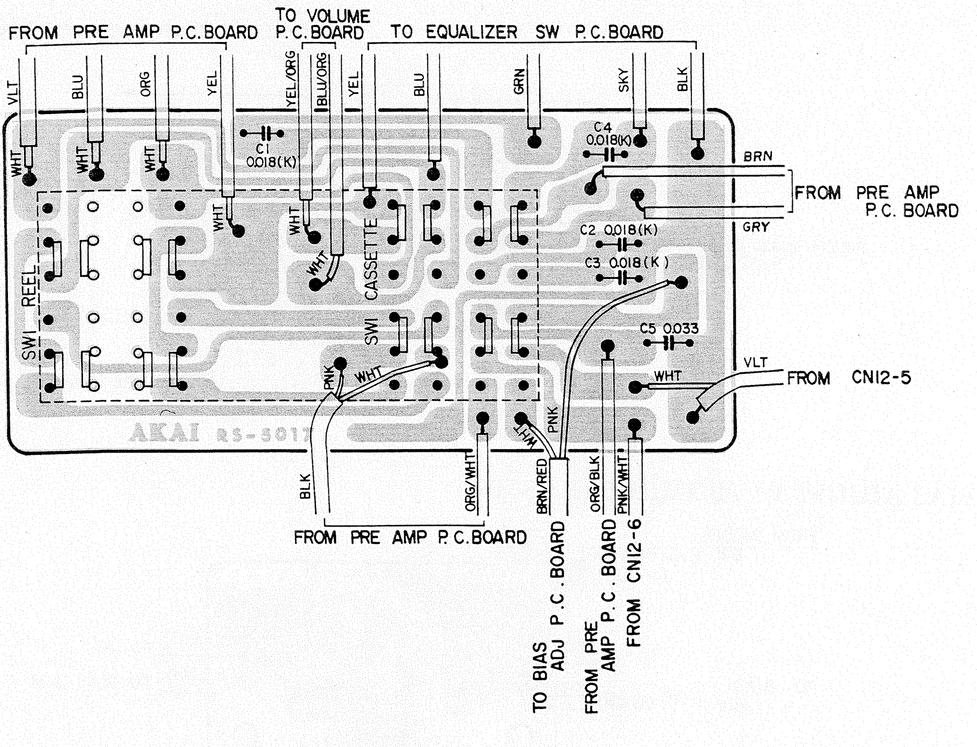
BIAS ADJUST P.C. BOARD B (RS-5016)


FROM MODE SW P.C.BOARD
GRY/RED
WHT
TO P3
PNK
TO BIAS ADJ P.C. BOARD
WHT
WHT
C5 470P/250V
AKAI
WHT
VR1 100KB
WHT
L1 1mH(J)
R1 47K
GRN
TO P1
WHT
TO BIAS ADJ P.C. BOARD

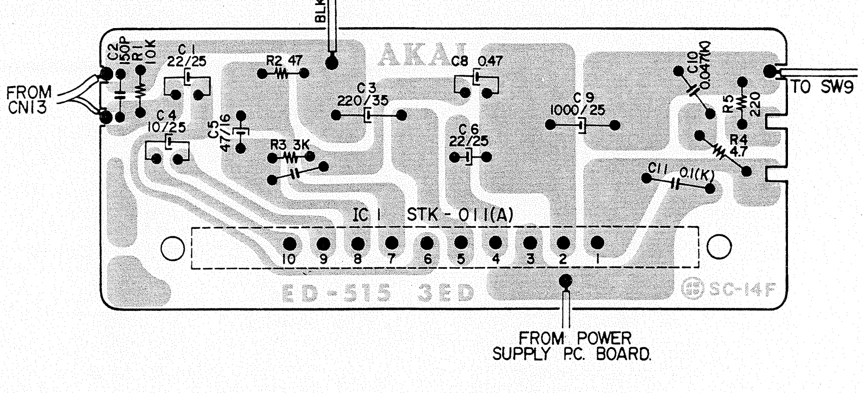
OSC. P.C. BOARD (MR-505)


BLK
TO CHASSIS
C403
0.01
TR401
2SC971 ②③ RED
L401
OT-104A
BLK
R404
470
R402
3.3
R403
4.7K
R405
3.3
C401
47/25
C402
2000P/500V
C404
0.01
TR402
2SC971 ②③ RED.
BLK
VLT
PNK/WHT
FROM
CN12-6
PNK/WHT
TO REC
IND LAMP
R401 3W 100Ω (K)
AKAI
MR-505 (A)
WHT
TO CN12-5

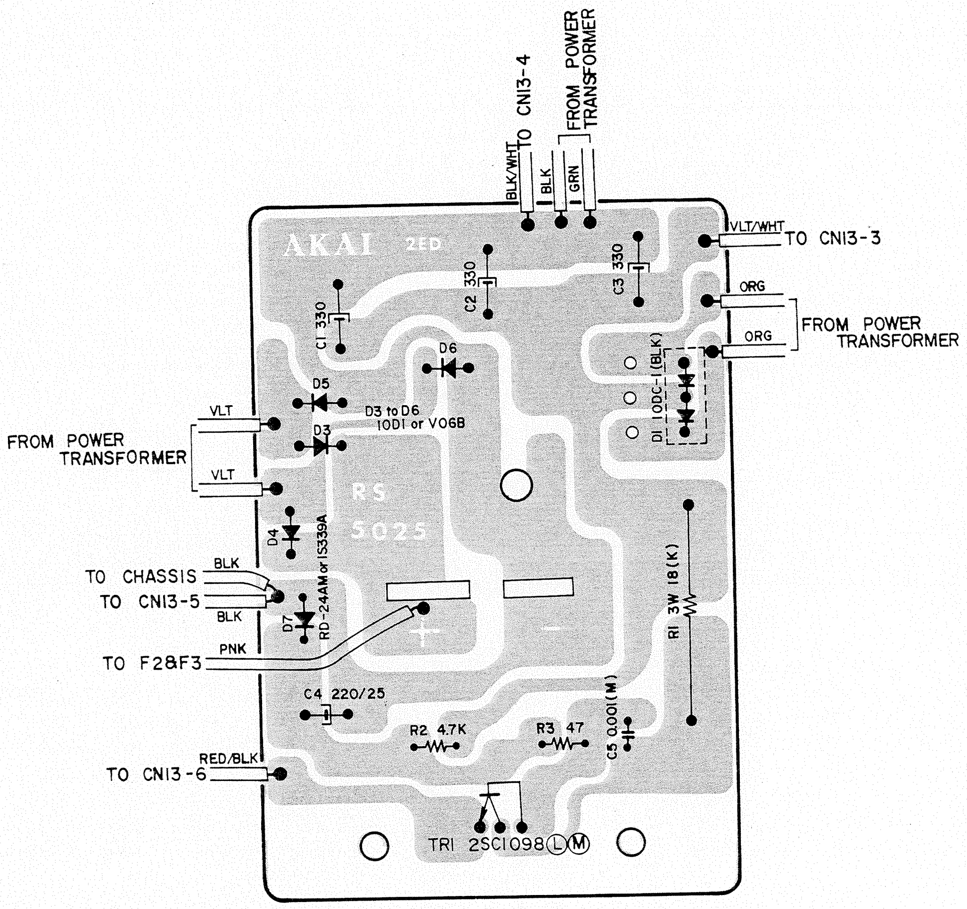
MODE SWITCH P.C. BOARD (RS-5017)


FROM PRE AMP P.C.BOARD
TO VOLUME
P.C.BOARD
TO EQUALIZER SW P.C.BOARD
VLT
BLU
ORG
YEL
YEL/ORG
BLU/ORG
YEL
BLU
GRN
SKY
BLK
WHT
WHT
WHT
C1
0.018(K)
C4
0.018(K)
BRN
FROM PRE AMP
P.C. BOARD
GRY
WHT
WHT
WHT
CASSETTE
C2 0.018(K)
C3 0.018(K)
REEL
SW1
SW1
C5 0.033
VLT
FROM CN12-5
WHT
PNK
WHT
PNK
WHT
AKAI RS-5017
BLK
ORG/WHT
BRN/RED
ORG/BLK
PNK/WHT
FROM PRE AMP P.C.BOARD
TO BIAS
ADJ P.C. BOARD
FROM PRE
AMP P.C. BOARD
FROM CN12-6

POWER AMP. P.C. BOARD (ED-515 3ED)

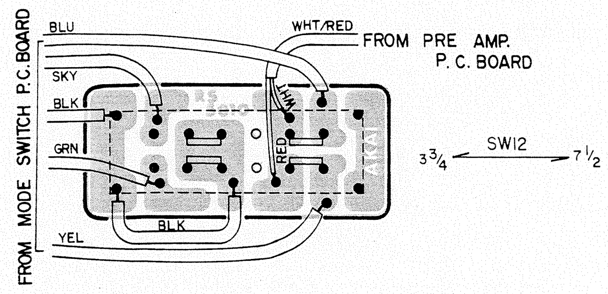

BLK
C2
150P
R1
10K
C1
22/25
R2 47
AKAI
C8 0.47
C10
0.047(K)
FROM
CN13
C3
220/35
C9
1000/25
R5
220
TO SW9
C4
10/25
C5
47/16
R3 3K
C6
22/25
R4
4.7
C11 0.1(K)
IC1 STK-011(A)
10
9
8
7
6
5
4
3
2
1
ED-515 3ED
SC-14F
FROM POWER
SUPPLY P.C. BOARD.

POWER SUPPLY P.C. BOARD (RS-5025)



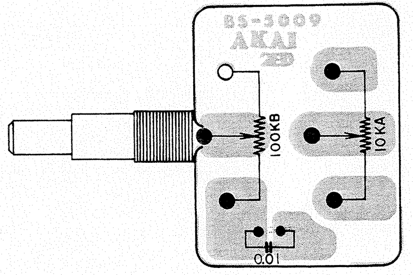
TO CN13-4
FROM POWER TRANSFORMER
BLK/WHT
BLK
GRN
AKAI 2ED
VLT/WHT
TO CN13-3
ORG
ORG
FROM POWER TRANSFORMER
C1 330
C2 330
C3 330
D6
D5
D3 to D6
10D1 or V06B
D3
D1 10DC-1(BLK)
FROM POWER TRANSFORMER
VLT
VLT
RS 5025
D4
RD-24AM or 1S339A
D7
TO CHASSIS
TO CN13-5
BLK
BLK
PNK
TO F2&F3
R1 3W 18(K)
C4 220/25
R2 4.7K
R3 47
C5 0.001(M)
RED/BLK
TO CN13-6
TR1 2SC1098ⓁⓂ

EQUALIZER SWITCH P.C. BOARD (RS-5010)



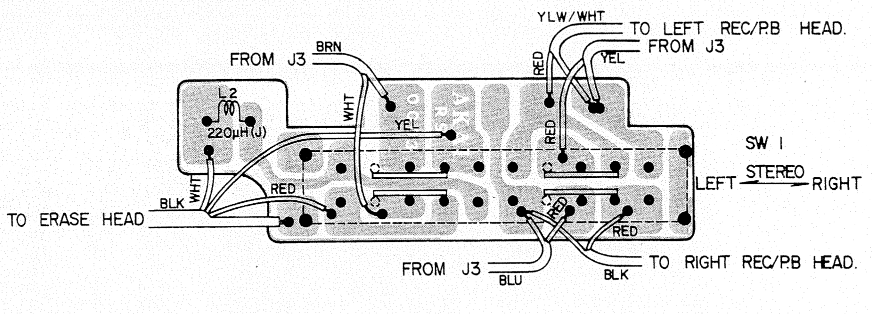
FROM MODE SWITCH P.C. BOARD
BLU
SKY
BLK
GRN
YEL
WHT/RED
FROM PRE AMP. P. C. BOARD
WHT
RED
BLK
AKAI
$3\frac{3}{4}$
SW12
$7\frac{1}{2}$

VOLUME & TONE P.C. BOARD (BS-5009 2ED)



BS-5009
AKAI
2ED
100KB
10KA
0.01

TRACK SELECTOR P.C. BOARD (RS-0003)



YLW/WHT
TO LEFT REC/P.B HEAD.
FROM J3
FROM J3
BRN
RED
YEL
L2
220μH(J)
WHT
YEL
AKAI
RED
SW 1
STEREO
LEFT
RIGHT
RED
TO ERASE HEAD
BLK
WHT
RED
RED
FROM J3
BLU
BLK
TO RIGHT REC/P.B HEAD.

SECTION 2

PARTS LIST

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HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read List

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

12-115x

Schematic Diagram Number of individual manufactured part.
(not required for parts order)

Quantity of particular part required.

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FLYWHEEL BLOCK #13		
12-115x	800425	Flywheel Block Assy. Comp.	RDG #13	1
12-116	244506	Flywheel Only	RD-233	1
12-117x	244754	Felt, Flywheel	RD-275	1
12-118	251324	Main Metal Case	RD-236	1
12-119	253080	Main Metal	RD-237	1

4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts List Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.

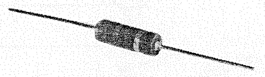
   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

ELECTRICAL PARTS LIST TABLE

ELECTRICAL PARTS LIST TABLE

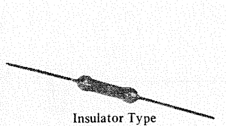
Because the indication of resistors and capacitors in the P.C. Board photos are being eliminated, please confirm parts name and shape by comparing them with the parts shown in this table.

1



Solid Resistor

2

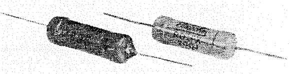


Stopper Type

Insulator Type

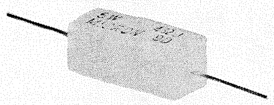
Carbon Resistor

3



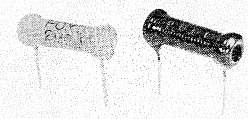
Metal Oxide Film Resistor

4



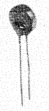
Cement Resistor

5



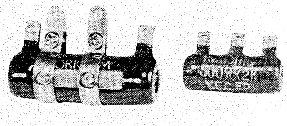
Wire-Wound Resistor

6



Thermistor

7



Enamel Resistor

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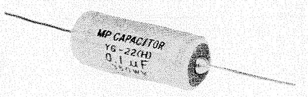
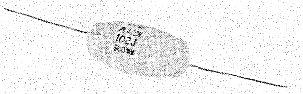


MP Capacitor (Tubler Type)

2



Plastic Capacitor

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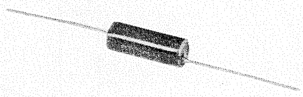

Mylar Capacitor

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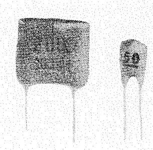
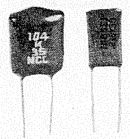


VFM (Hi-Q) Capacitor

5



Mylar Capacitor

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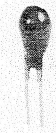

Tantalum Capacitor

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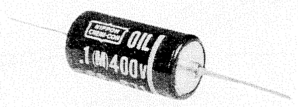

Oil Capacitor (Tubler Type)

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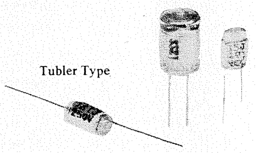

Vertical Type

Tubler Type

Styrol Capacitor

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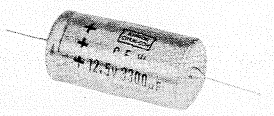

Electrolytic Capacitor (Tubler Type)

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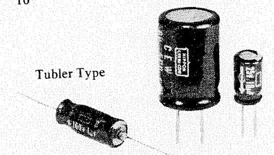
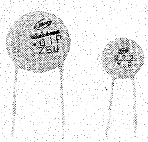


Vertical Type

Tubler Type

Electrolytic Capacitor

11



Ceramic Capacitor

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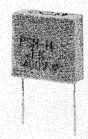

Metalized Mylar (Paper)Capacitor

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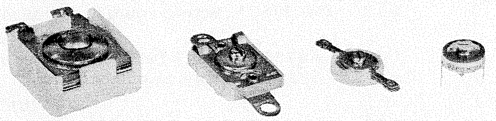
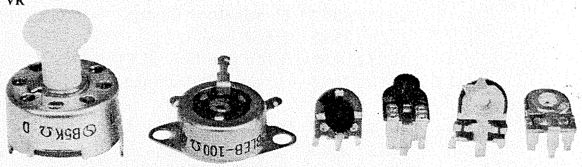


Trimer Condenser

VR



Semi-Fixed Volume

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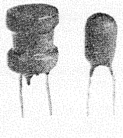
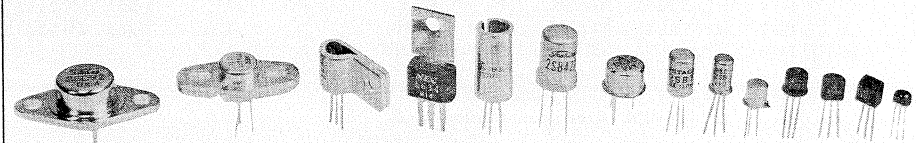


Ferri Inductor

TR



Transistor

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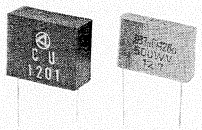
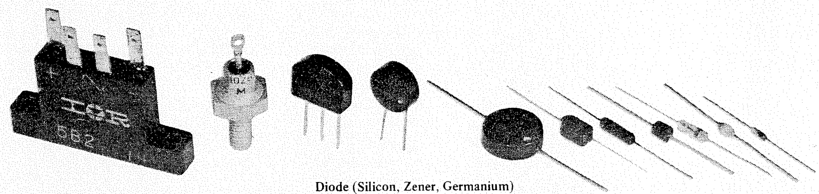


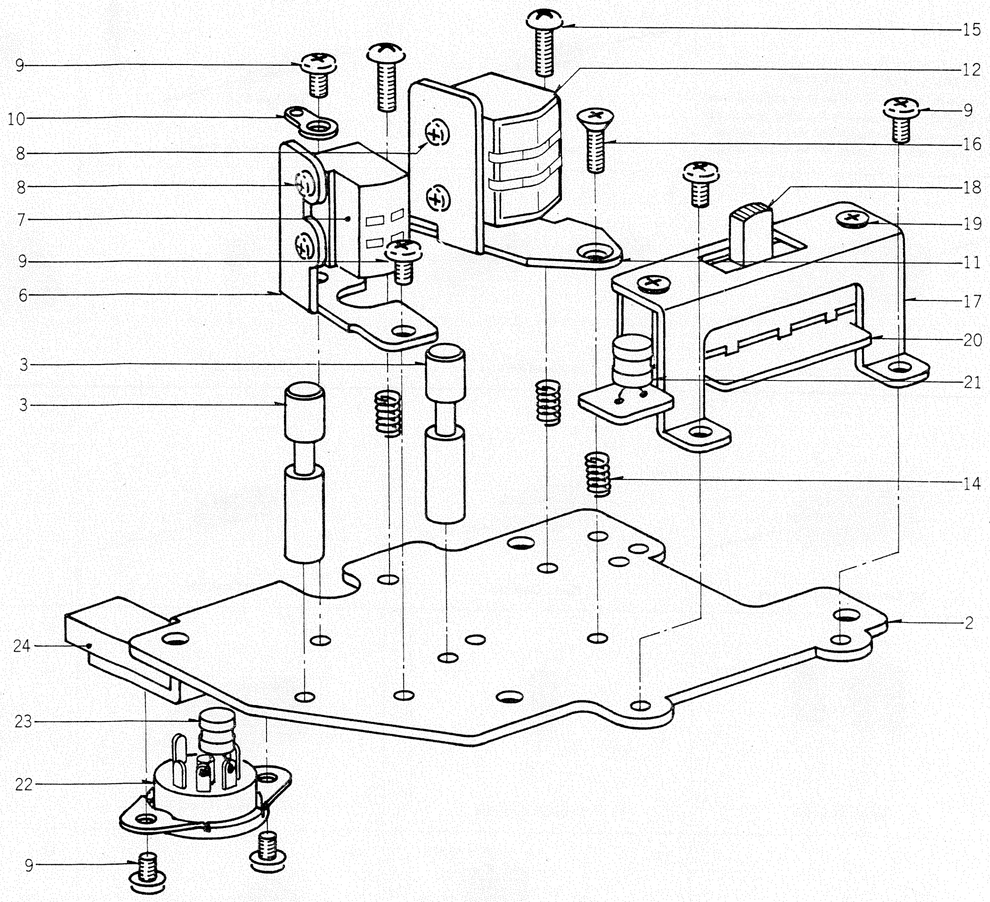
Spark Quencher

D



Diode (Silicon, Zener, Germanium)

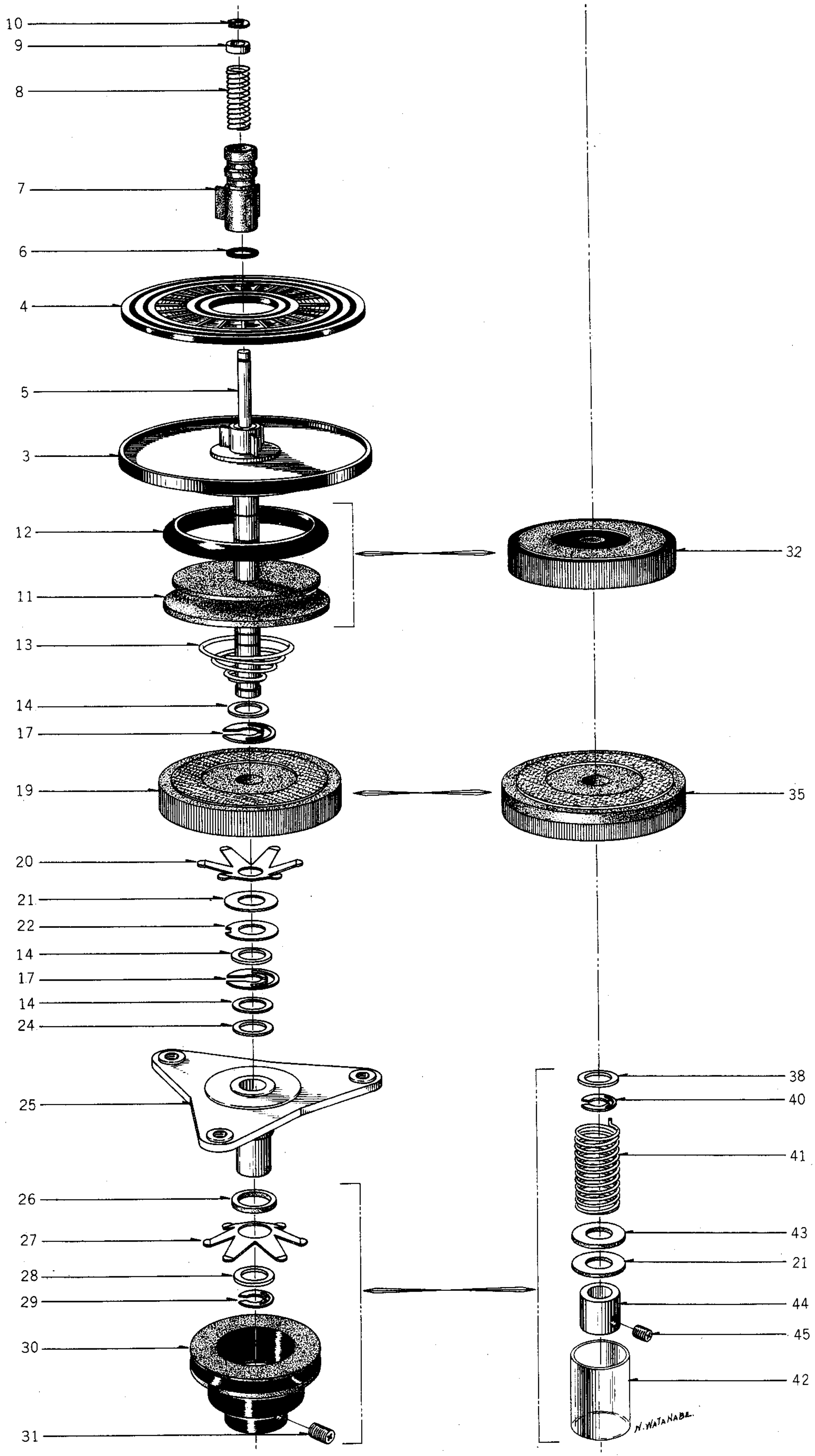
FIG. 1 ILLUSTRATION OF HEAD BLOCK



HEAD BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
1-1x	BH478372	Head Block Comp.	RS	1
1-2	HZ473848	Head Base	RS-0001	1
1-3	HZ328421	Tape Guide A (SX)	SX-3	3
1-4x	ZW417025	Screw, binding head 3x8, w/washer		3
1-5x	ZW273767	Earth Lug D3x20L		1
1-6	HZ382680	Erase Head Base	RD-A5	1
1-7	HE384693	ERASE HEAD E4-200		1
1-8	ZW477876	Screw, pan head 2x3		4
1-9	ZW323728	Screw, binding head 3x5		6
1-10	ZW273778	M3 Earth Lug		1
1-11	HZ473861	Rec./P.B. Head Mt. Base	RS-0004	1
1-12	HP375131	REC./P.B. HEAD P4-150		1
1-13x	HZ393974	I-MK Head Terminal Plate	RC-89	1
1-14	ZG364656	Angle Adjust Spring C	RD-57	3
1-15	ZW425114	Screw, round head 3x10		2
1-16	ZW425103	Screw, countersunk head 3x10		1
1-17	HZ473837	Switch Retaining Table	RS-0002	1
1-18	ES471914	Slide Switch SL243B4	25-3-64	1
1-19	ZW477887	Screw, countersunk head 2.6x5		2
1-20	EA473850	Track Selector P.C. Board	RS-0003	1
1-21	E0346500	Ferri Inductor FL7H 220μH(J)	23-1-3	1
1-22	EJ392567	M type Molded Socket SB-5202	31-1-75	1
1-23	E0243977	Ferri Inductor FL7H 1MH(J)	23-1-3	1
1-24	SZ461632	Rubber, Speaker	BS-6044	1
1-25x	MZ219576	Cord Retainer D	M9-123	1
1-26x	ZW323728	Screw, binding head 3x5		1

FIG. 2 ILLUSTRATION OF SUPPLY/TAKE-UP REEL TABLE BLOCK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N. WATANABE

SUPPLY/TAKE-UP REEL TABLE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-1x	BR364037	Supply Reel Table Block Comp.	RS,RCCSD	1 1
2-2x	BR364048	Take-up Reel Table Block Comp.	RS,RCCSD	1
2-3	MT368684	Reel Table Disk A, w/shaft A	XR-101	2
2-4	MT317463	MR Reel Table Rubber	MR-250	2
2-5	MS255600	Reel Shaft B	XR-103	2
2-6	MT297663	3R 'O' Ring 2.9x1.65M	3R-139	2
2-7	MT255420	Reel Retainer	3R-102	2
2-8	ZG255633	Reel Spring	3R-109	2
2-9	MT255565	Reel Shaft Ring	XR-177	2
2-10	ZW270088	'E' Ring 1.9M	6-1-9	2
2-11	MR251460	Rewind Pulley	900-222	1
2-12	MT222366	Rubber Ring	900-234	1
2-13	ZG227553	Spring G2 (L)	900-230	1
2-14	ZW260021	Washer (SUP) D6.1x10x0.13t		6
2-15x	ZW260054	Washer (SUP) D6.1x10x0.25t		5
2-16x	ZW260065	Washer (SUP) D6.1x10x0.35t		7
2-17	MT255870	Reel Table Thrust Pin	900-237	4
2-18x	MT252101	Friction Cloth A	900-224	1
2-19	MR252066	Take-up Roller C	900-220	1
2-20	MT255971	Reel Table Spring Plate A	900-227	1
2-21	MT438647	Reel Torque Adjust Thrust 7 D6.2x13x0.5t	101022	2
2-22	ZW231693	Claw Thrust Washer	900-235	2
2-23x	MT438592	Reel Torque Adjust Thrust 2 D6.1x10x0.3t	101017	2
2-24	MT438603	Reel Torque Adjust Thrust 3 D6.1x10x0.5t	101018	2
2-25	MT292386	XR Reel Metal Mt. Part, w/metal B	XR-191	2
2-26	MZ437804	Flywheel Thrust A D7.9x13x1t	101024	2
2-27	MT255993	Reel Table Spring Plate C	M8-207	2
2-28	ZW260065	Washer (SUP) D6.1x10x0.35t		1
2-29	ZW270000	Retaining Pin D4	900-257	1
2-30	MR256094	Reel Table Pulley	900-239	1
2-31	ZW434171	Set Screw, hexagon socket 4x7 (cup)		1
2-32	MR252044	Take-up Roller A	900-218	1
2-33x	ZG227542	Spring G2 (R)	900-230	1
2-34x	MT255881	Reel Table Slip Plate A	MH-219	1
2-35	MR252077	Take-up Roller D (lower)	M8-204	1
2-36x	MT255982	Reel Table Spring Plate B	900-228	1
2-37x	MT438581	Reel Torque Adjust Thrust 5 D5.8x10.3x1t	101016	1
2-38	MT438614	Reel Torque Adjust Thrust 4 D6.1x10x0.8t	101019	1
2-39x	MT438625	Reel Torque Adjust Thrust 5 D6.1x10x1t	101020	1
2-40	ZW312693	'E' Ring 4M	6-1-4	1
2-41	ZG414077	Spring F4	CD-67	1
2-42	MT440313	Nylon Tube D12		19
2-43	MT438636	Reel Torque Adjust Thrust 6 D6.2x13x1t	101021	1
2-44	MT228598	Set Sleeve B	CD-66	1
2-45	ZW434160	Set Screw, hexagon socket 3x3 (cup)		1

MOTOR/BELT CHANGE LEVER BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	MOTOR BLOCK			
3-1x	BM478585	Motor Block Comp.	RS	1
3-2	MZ448222	24 Motor Cover, w/metal	24X-781	2
3-3	ZW427037	Screw, pan head 4x50, w/washer		4
3-4	MZ254316	24 Motor Prop B	24X-729	4
3-5	MZ254373	Motor Mt. Plate L	24X-733	1
3-6	MZ254305	Motor/R. Table	RC-112	1
3-7	MZ254160	Motor Prop A	24X-730	2
3-8	MZ254182	Motor Prop B	24X-731	1
3-9	ZW424056	Screw, pan head 4x10		4
3-10	ZW272395	M-7 Motor Prop Set Screw	24X-732	1
3-11	ZW427026	Screw, countersunk head 4x10		2
3-12x	MZ296144	24 Oil-cut	24X-735	2
3-13x	ZW222388	Rubber Washer	24X-739	1
3-14x	ZW259885	Washer (PBP) D5.1x10.3x0.1t		1
3-15	MR477472	Motor Pulley (RS), w/pin	RS-7001	1
3-16	MR257984	Knurling Pulley, w/retainer B	24X-740	1
3-17	ZW413921	Screw, oval countersunk head 3x15		1
3-18x	MZ292364	XR Motor Shield Plate B	XR-705	1
3-19	MZ316326	Motor Out-side Shield (large) A	10R-714	1
3-20x	MZ337724	Motor Out-side Shield (large) B	10R-716	1
3-21	MZ256882	Motor Fan D, w/boss	MH-636	1
3-22	ZW476987	Set Screw, hexagon socket 5x4		1
3-23	EC411682	MP/C. 2+0.8μF 250WV AC (Lug type Uni/D.)	24-9-53	1
3-24x	EC330401	MP/C. 2+1μF 250WV AC (Lug type Uni/D.) (AAL)	24-9-38	1
3-25	ZW323728	Screw, binding head 3x5		2
	BELT CHANGE LEVER BLOCK			
3-26x	BL204445	Belt Change Lever Block Comp.	B	1
3-27	ML217462	Belt Change Lever B (small), w/roller B	AT-25	1
3-28	MZ248354	Belt Guide Stop, w/metal	4TR-221	1
3-29	ZG217337	Belt Return Spring	4TR-224	1
3-30	ZW413201	Screw, pan head 4x8		1
3-31x	ZG217394	Belt Change Spring B	MH-125	1
3-32x	ZW260054	Washer (SUP) D6.1x10x0.25t		1
3-33x	ZW290283	'U' Ring 2.85M	6-1-1	1

FIG. 3 ILLUSTRATION OF MOTOR/BELT CHANGE LEVER BLOCK

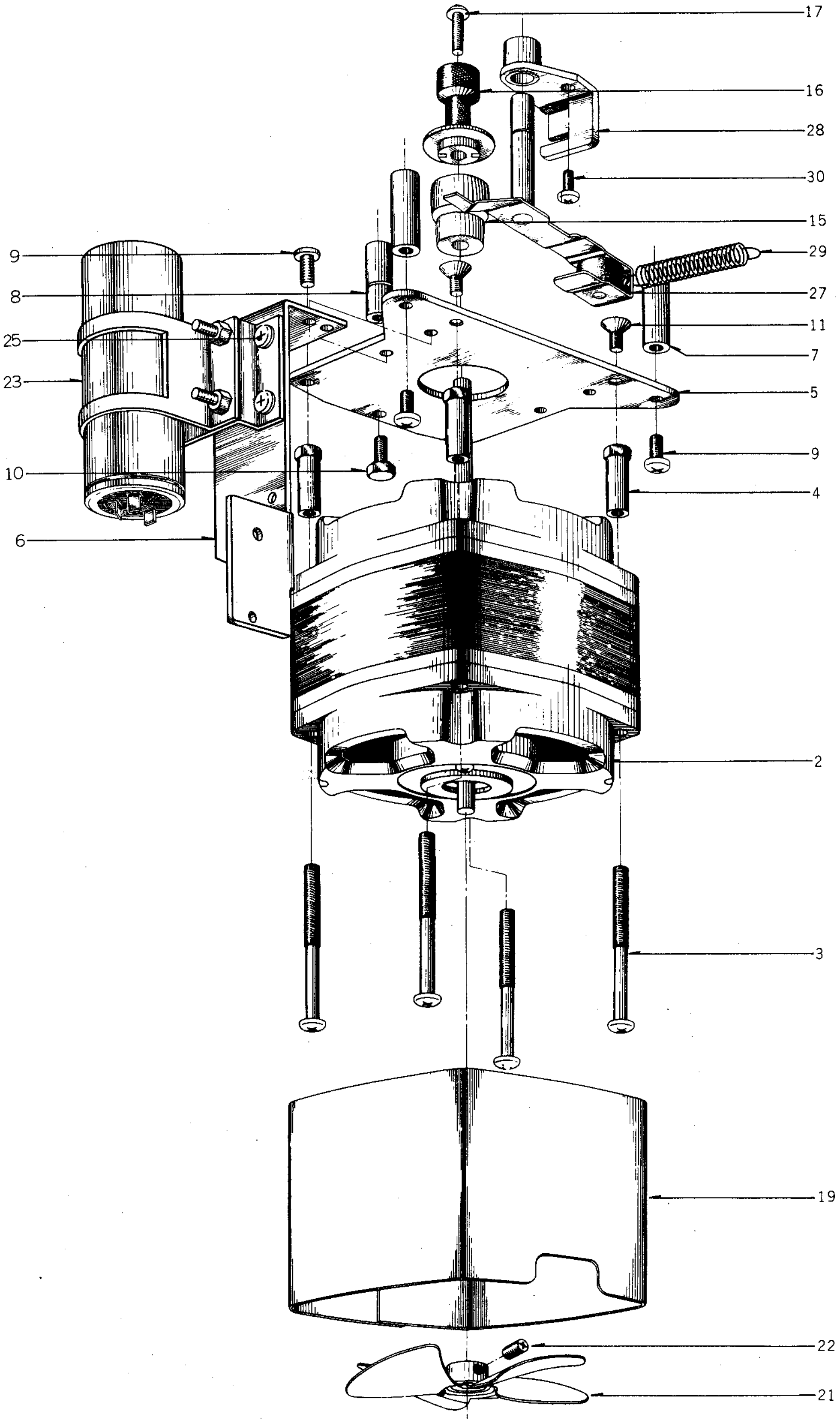
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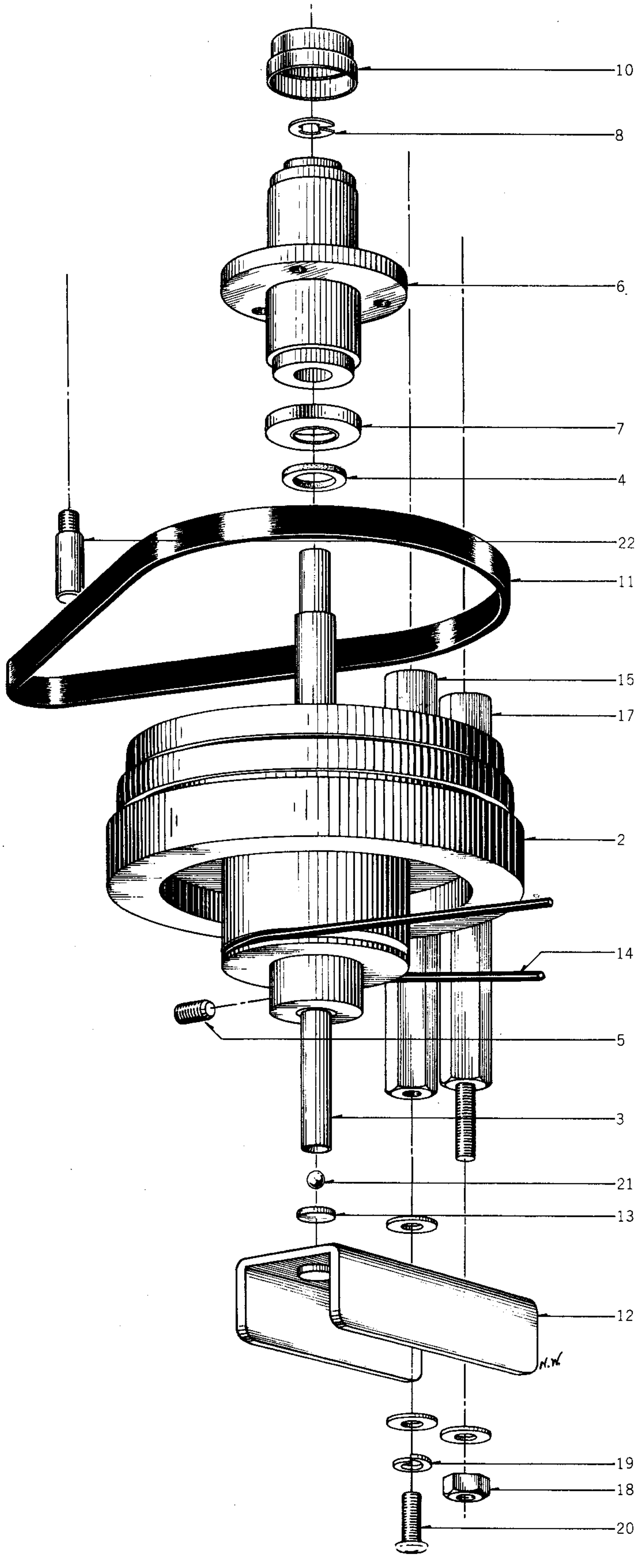
FIG. 4 ILLUSTRATION OF FLYWHEEL BLOCK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FLYWHEEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
4-1x	BF478618	Flywheel Block Comp.	RS	1
4-2	MZ369854	RCC Flywheel	RCC-201	1
4-3	MS471903	RS Main Shaft	RS-2002	1
4-4	MZ437804	Flywheel Thrust A D7.9x13x1t	101024	1
4-5	ZW373577	Set Screw, hexagon socket 5x6 (flat)		2
4-6	MZ275725	RC Main Case Comp.	RC-101	1
4-7	MZ446635	Thrust Cap, Main Metal B2	LF-2006	1
4-8	ZW244710	Flywheel Fixing Pin	900-250	1
4-9x	MZ244113	Felt D12.5x16x2t		1
4-10	MZ253113	Main Metal Cap B	MH-208	1
4-11	MB256590	Double Face Flat Belt D110	100912	1
4-12	MZ244517	Flywheel Support Plate	RC-108	1
4-13	ZW373331	Washer, without Hole D10.3x1t		1
4-14	MB377256	Flywheel Belt B	RCC-204	1
4-15	MZ471778	Flywheel Prop 1	RS-1008	1
4-16x	ZW479463	Screw, truss head 4x10		2
4-17	MZ471780	Flywheel Prop 2	RS-1009	1
4-18	ZW369494	Flange Nut M4		2
4-19	ZW273914	M4 Spring Washer		1
4-20	ZW413201	Screw, pan head 4x8		1
4-21	MV269965	Steel Ball D4		1
4-22	MZ248343	Belt Guide Pin	4TR-109	1
4-23x	ZW413188	M4 Nut		1

SWITCH BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
5-1x	BS478596	Switch Block Comp.	RS	1
5-2	MZ316901	Switch Table A-2 (SX), w/props	MR-201	1
5-3	ES316934	RWD Shaft (Y type)	25-8-5	1
5-4	ES369865	RCC Y type RWD Shaft	RCC-202	1
5-5	MZ316945	Nut Plate	MR-245	2
5-6	ZW202138	Screw, binding head 3x6, w/washer		4
5-7	MZ316956	Cam A-3	MR-242	1
5-8	ZW413201	Screw, pan head 4x8		4
5-9x	ZW260133	Washer (Fiber) D6.1x10x1t		3
5-10	MZ327341	Cam Trap Plate B	SX-201	1
5-11	ZG227586	Spring K	900-214	1
5-12	MZ327352	Cam C-2	SX-202	1
5-13	ZW201778	Screw, pan head 4x8		1
5-14x	ZW434215	Washer (Nylon) D6.1x10.3x0.3t		1
5-15x	ZW434193	Washer (Nylon) D6.1x10.3x0.5t		1
5-16	MV270066	Steel Ball D8		1
5-17	MZ217293	Cam B-2, without Tap	1630-201	1
5-18	ZW416687	Screw, binding head 4x8		1
5-19	ML257128	Lever I, w/shaft B	900-209	1
5-20	MZ217203	Cam Roller A	900-153	1
5-21	ZW290283	'U' Ring 2.85M	6-1-1	2
5-22	ZW217877	Pause Lever Set Screw	900-136	1
5-23	ZW260166	Washer (Nylon) D6.2x13x0.125t		2
5-24x	ZW273892	M4 Toothed Lock Washer		1
5-25	ZW273960	M4 Nut		1
5-26	MZ225720	Switch Table B-2	M9-308	1
5-27	MZ258581	Rec. Lever Prop	M9-303	1
5-28	MZ317068	Amp. Switch Cam B	MR-243	1
5-29	MZ217686	Pause Lever Cushion	LC-102	1
5-30x	BL478607	Switch Lever Block Comp.	RS	1
5-31	ML226080	Switch Lever A, w/shaft B	900-255	1
5-32	MZ217203	Cam Roller A	900-153	1
5-33x	ZW290283	'U' Ring 2.85M	6-1-1	1
5-34	ML471892	Adjust Lever B	RS-2001	1
5-35	ZW437545	Hexagon Bolt 4x7, w/washer		2
5-36	ZG227564	Spring H	900-120	1
5-37	EG227485	Spring E	900-119	1

FIG. 5 ILLUSTRATION OF SWITCH BLOCK

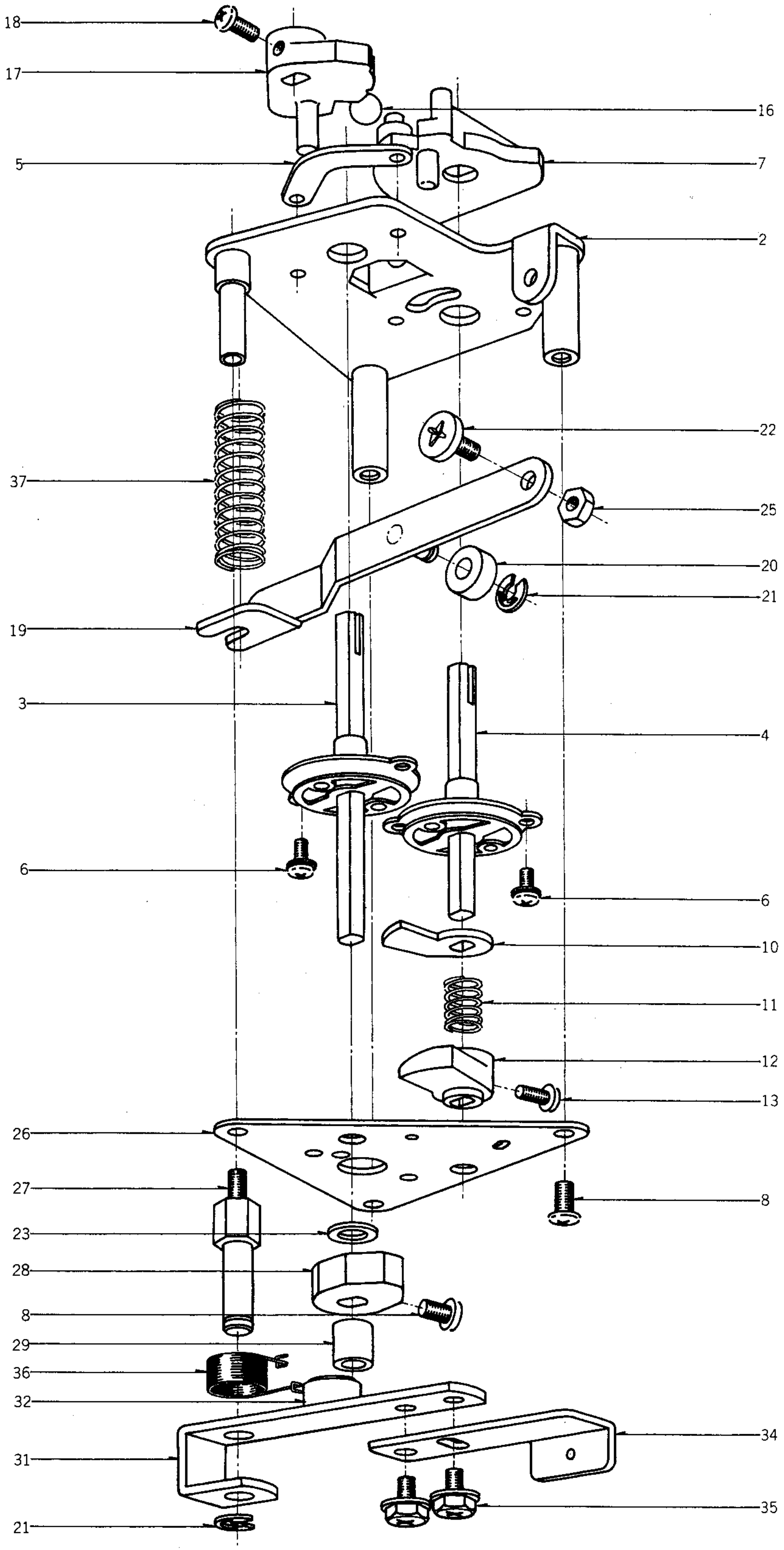
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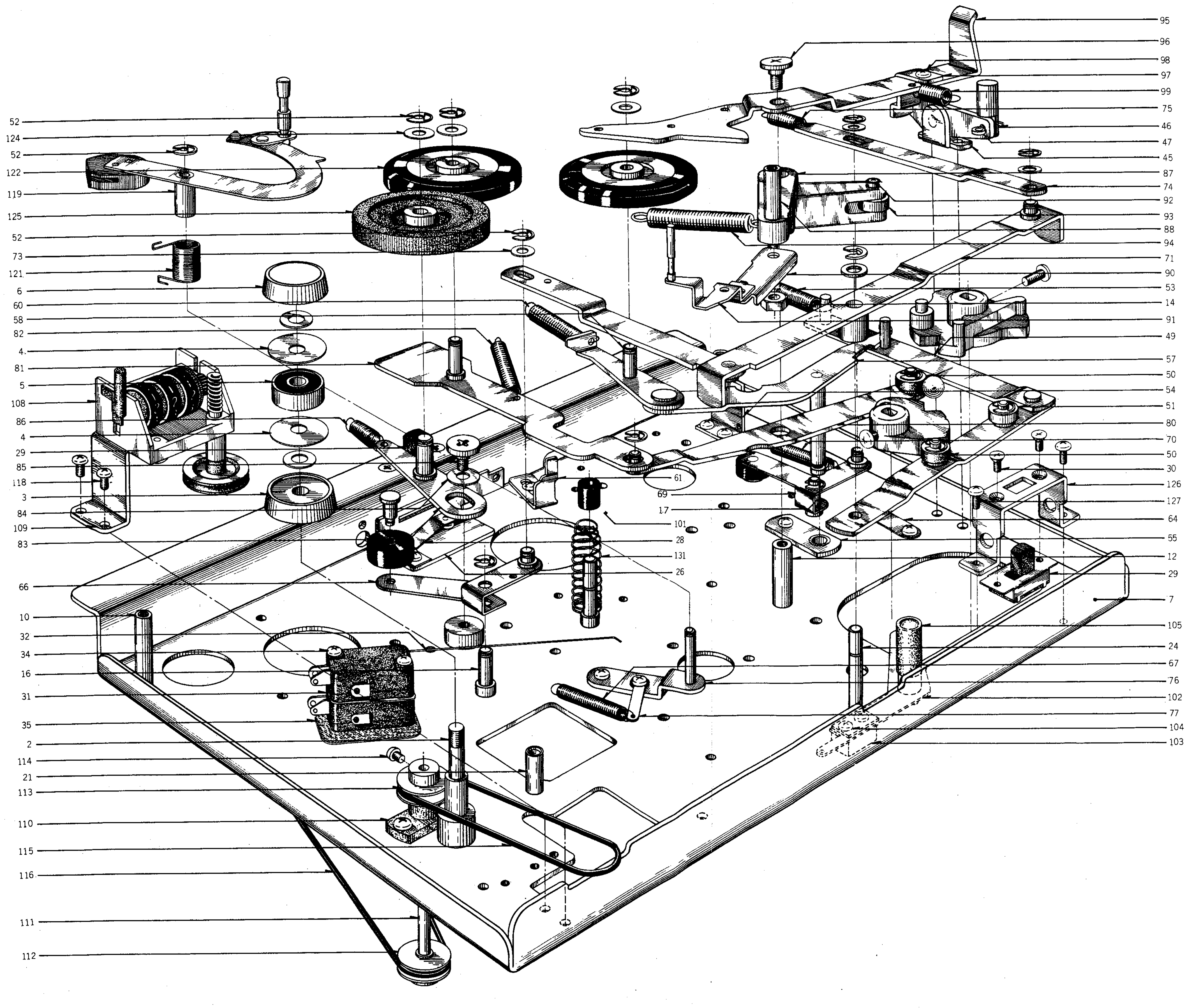
FIG. 6 ILLUSTRATION OF MECHANISM ASSEMBLY BLOCK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MECHANISM ASSEMBLY BLOCK

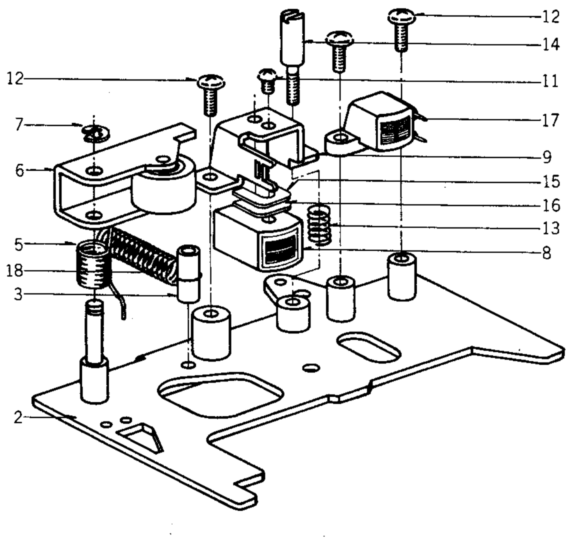
TAPE GUIDE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
6-1x	BZ484773	Tape Guide Block #4 Comp.	RS	1
6-2	MH471881	Guide Prop	RS-1003	1
6-3	SZ465377	Tape Guide Table A	LC-618	1
6-4	ZW231805	Tape Guide Washer (large)	3A-356	2
6-5	MV248117	Bearing 635AHZZ-CIE-B32		1
6-6	SZ465388	Tape Guide Table B	LC-619	1

MECHANISM ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
6-7	MZ477426	Mech. Frame (DF)	SX-101	1
6-8x	MZ327205	Bush B	SX-102	1
6-9x	ZW328871	Flange Nut M6		1
6-10	MZ273295	M-9 Mech. Panel Prop	M9-302	4
6-11x	ZW369900	Screw, pan head 3x8, w/washer		4
6-12	MS257051	Lever FA Shaft	900-127	1
6-13x	HZ305403	Cart. Frame Square Prop	RC-134	1
6-14	ZW413188	M4 Nut		1
6-15x	ZW273914	M4 Spring Washer		1
6-16	MS245463	Brake Lever Shaft	900-129	1
6-17	MS491692	Brake Lever Shaft	RS-1019	1
6-18x	ML308564	Belt Vibration Stopper (D, AAL)	MH-137	1
6-19x	MZ245485	Brake Lever Pin (D, AAL)	MH-138	1
6-20x	ZW413188	M4 Nut (D, AAL)		1
6-21	MZ327216	Head Prop (SX)	SX-104	3
6-22x	ZW413201	Screw, pan head 4x8		2
6-23x	ZW414044	Screw, countersunk head 4x8		1
6-24	MS478620	A Lever Shaft	RS-1017	1
6-25x	ZW413267	Flange Nut M4		1
6-26	MZ257073	Lever FB Guide Base	M9-103	1
6-27x	ZW417150	Screw, pan head 4x6		2
6-28	ZG257095	Lever FB Vibration Proof Spring	M8-104	1
6-29	ES479485	Slide Switch S-1	25-3-66	2
6-30	ZW440291	Iso Screw, countersunk head 3x6		4
6-31	ES250042	Micro Switch V-1A U/L	25-1-1	2
6-32	MZ205817	Actuator JW-560	21-1-5	1
6-33x	ZW414055	Screw, binding head 3x30		1
6-34	ZW414066	Screw, binding head 3x25		1
6-35	MZ479834	Micro Insulator S	MS-1020	1
6-36x	ZW273756	M3 Nut		1
6-37x	MZ248343	Belt Guide Pin	4TR-109	1
6-38x	MZ452496	Cycle Angle (D, CEE)	LS-1007	1
6-39x	ZW330412	Adjust Washer (U) D4x13x0.13t		1
6-40x	ZW330423	Adjust Washer (U) D4x13x0.25t		1
6-41x	ZW330445	Adjust Washer (U) D4x13x0.8t		1
6-42x	EZ328320	Nylon Clip HP-5N		2
6-43x	EJ477448	Mate-N-Lock Comp. RS	RS-1016	1
6-44x	EJ488204	Mate-N-Lock Comp. (D, CEE)	RS-1016	1
6-45	ML226258	Start Lever A, w/lever B-2	4TR-122	1
6-46	SB425777	Start Button	MS-1002	1
6-47	ZW314728	Cotter Pin 1.6x8		1
6-48x	ZW384131	Screw, round head 3x5		2
6-49	ML309093	Lever B, w/lever D	900-103	1
6-50	MZ217203	Cam Roller A (Nylon)	900-153	2
6-51	MR217214	Cam Roller B (Steel)	4TR-240	1
6-52	ZW290283	'U' Ring 2.85M	6-1-1	2
6-53	ZG469427	Spring B-1	LS-2004	1
6-54	ML475920	New Spring Hook	900-185	1
6-55	MZ253653	Metal Mt. Part, w/metal	900-174	1
6-56x	ZW273881	M4 Earth Lug		1
6-57	ML270685	G Lever, w/H lever	900-109	1
6-58	MS205560	Idler Shaft B	100150	1
6-59x	ZW200384	Screw, countersunk head 3x6		1
6-60	ZG205571	Idler Tension Spring	MH-135	1
6-61	MZ327251	G Lever Stopper (SX)	SX-110	1
6-62x	ZW413223	Screw, binding head 3x5, w/washer		1
6-63x	ZW260054	Washer (SUP) D6.1x10x0.25t		1
6-64	MZ217697	Pause Lever Stopper Plate	M9-113	1
6-65x	MZ256814	Rewind Shaft Spacer	M9-124	2
6-66	ML217934	Supply Brake Comp.	900-113	1
6-67	ZG290384	UN Spring D	1630-108	1
6-68x	ZW259942	Washer (Fiber) D5.1x10.3x0.5t		2
6-69	ML251932	Take-up Brake Comp.	900-114	1
6-70	ZG227452	Spring D	900-118	1
6-71	ML260504	Lever A, w/lever E-2	900-102	1
6-72x	ZW376380	Washer (Polyslider) D5.1x10.3x0.13t		1
6-73	ZW369595	Washer (Pressboard) D5.1x10.3x0.25t		2
6-74	ML262337	Lever C3	M8-106	1
6-75	ZG217337	Belt Return Spring	4TR-224	1
6-76	MZ260662	AS Lever Prop Base, w/prop	4TR-236	1
6-77	ZW273767	Earth Lug D3x20L		1
6-78x	ZW462835	Washer (PBP) D4.3x11x0.2t		1
6-79x	ZW462846	Washer (PBP) D4.3x11x0.3t		1
6-80	ML257040	Lever FA, w/shaft B	900-107	1
6-81	ML295727	2 Speed Motor Lever F, w/shaft	M8-107	1
6-82	ZG270358	F.B Pull Spring	M8-108	1
6-83	ML257163	Lever K, w/shaft	900-111	1
6-84	ZW260166	Washer (Nylon) D6.2x13x0.125t		1
6-85	ZW223233	Fulcrum Screw A	900-135	1
6-86	ZG224796	New Spring D	MH-142	1
6-87	ML327385	Pinch Roller Lever (SX)	SX-117	1
6-88	MS471802	RS Pinch Roller Shaft	RS-2004	1
6-89x	ZW303491	Washer (SUP) D4.3x11x0.8t		1
6-90	MZ327295	Shifter Plate	SX-119	1
6-91	ML471813	Shifter Lever, w/pin	RS-1010	1
6-92	MS217192	Cam Roller Shaft A	900-130	1
6-93	MR269728	Cam Roller D12.5	RC-126	1
6-94	ZG272981	M-9 Pinch Roller Spring	M9-104	1
6-95	ML369718	Pause Lever A, w/set screw	RCC-101	1
6-96	ZW217877	Pause Lever Set Screw	900-136	1
6-97	MZ316451	M-7 Pause Stopper	MH-126	1
6-98	ZW323728	Screw, binding head 3x5		1
6-99	ZG217866	Pause Lever Spring A	900-123	1
6-100x	ZW259795	Washer (SUP) D4.3x11x0.13t		1
6-101	MZ217686	Pause Lever Cushion	LC-102	1
6-102	MZ327262	Cam Stopper	SX-111	1
6-103	ZW217102	Cam Stopper Insulator Washer	900-165	1
6-104	ZW413245	Screw, pan head 4x15		2
6-105	SB471835	Rec. Button, w/shaft	RS-1001	1
6-106x	ZW477450	Washer (SUP) D3.4x7.8x0.5t		1
6-107x	ZW477461	Cotter Pin 1.6x10		1
6-108	MC471868	Counter MP391-00	9-1-21	1
6-109	MZ471856	Counter Base	RS-1002	1
6-110	BC369720	Counter Pulley Case, w/metal	RCC-104	1
6-111	MS369742	Counter Middle Shaft	RCC-106	1
6-112	MR369731	Counter Middle Pulley, RCC	RCC-105	2
6-113	MR471870	Counter Middle Pulley, RS	RS-1004	1
6-114	ZW432843	Screw, pan head 2.6x4		2
6-115	MB369753	Middle Belt	RCC-107	1
6-116	MB369663	RCC Counter Belt	RCC-126	1
6-117x	ZW413741	Screw, binding head 3x8		2
6-118	ZW323728	Screw, binding head 3x5		2
6-119	BL204658	AS Lever Comp. #2		1
6-120x	ZW322525	Washer (PBP) D4.1x7x0.2t		1
6-121	ZG293692	AS Lever Spring #1630	1630-103	1
6-122	MI204423	Idler Wheel #2		2
6-123x	ZW376380	Washer (Polyslider) D5.1x10.3x0.13t		1
6-124	ZW260076	Washer (Nylon) D6.1x10x0.5t		1
6-125	MI231423	Middle Wheel, w/metal	900-155	1
6-126	MZ484751	Automatic Switch Plate	RS-1018	1
6-127	ZW413155	Screw, binding head 3x6		2
6-128x	EJ205975	Cramp Terminal 1-SD (D, AAL)	32-1-7	3
6-129x	EJ205975	Cramp Terminal 1-SD (D, CEE)	32-1-7	2
6-130x	MB229138	Side Wire Band (D, CEE)	2-35-1	1
6-131	ZG217394	Belt Change Spring B	MH-125	1

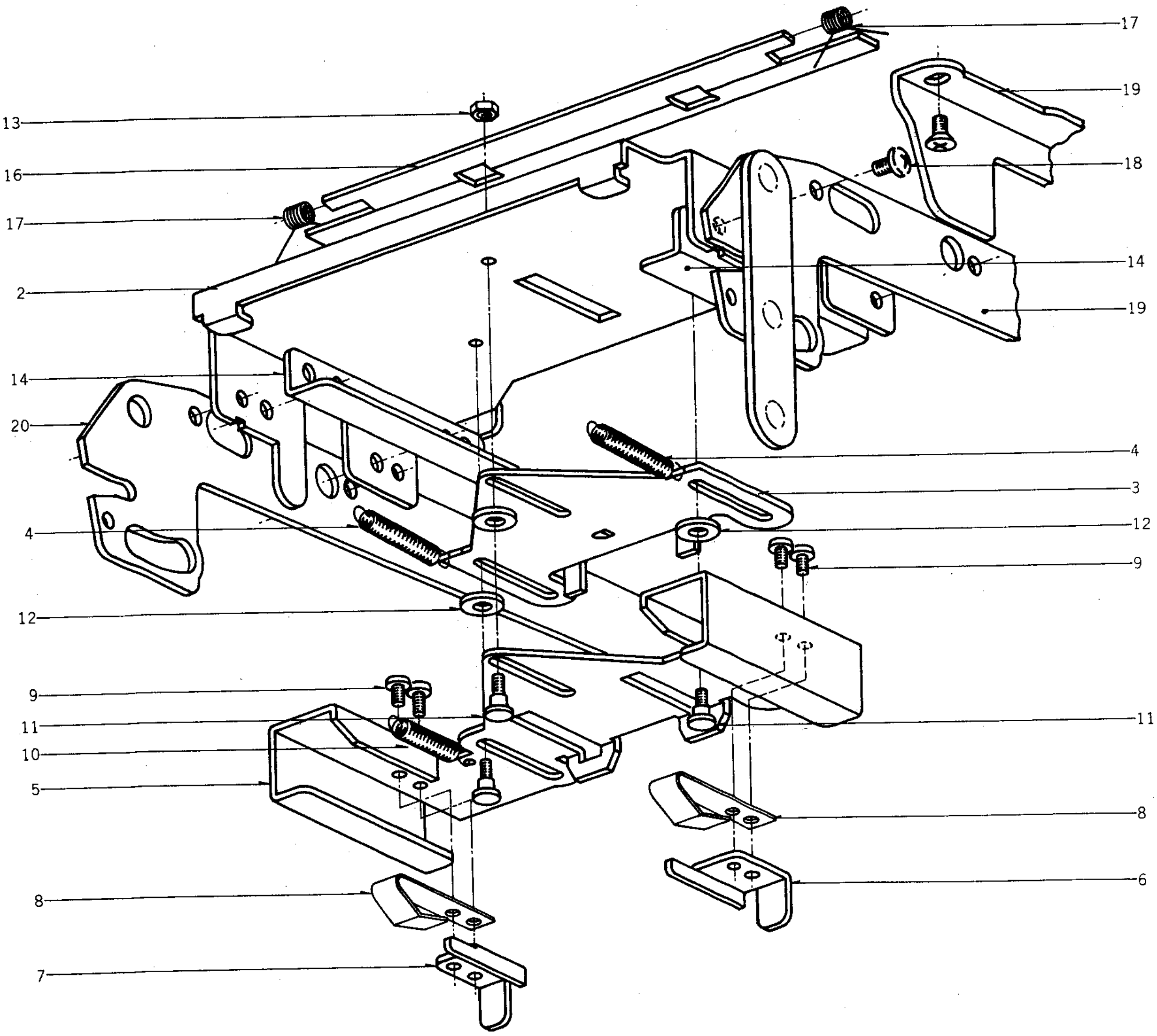
FIG. 7 ILLUSTRATION OF CASSETTE HEAD BLOCK



CASSETTE HEAD BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
7-1x	BH478530	Cassette Head Block Comp.	RD	1
7-2	HZ368954	Head Base S, w/props	RCC-1019	1
7-3	UC369000	Pinch Roller Stopper	RCC-1024	1
7-4x	ZW201936	Screw, binding head 2.3x6		1
7-5	ZG364386	Pinch Roller Spring	RCC-1031	1
7-6	UC369011	Pinch Roller Lever, w/pinch roller	RCC-1025	1
7-7	ZW270088	'E' Ring 1.9M	6-1-9	1
7-8	HP451934	REC./P.B. HEAD P4-330		1
7-9	UM366625	PC Tape Guide	RCC-1012	1
7-10x	ZW259380	Washer (BSP) D2.4x4.3x0.3t		2
7-11	ZW374646	Screw, pan head 2x2		2
7-12	ZW201936	Screw, binding head 2.3x6		3
7-13	ZG369088	Angle Adjust Spring	RCC-1032	1
7-14	ZW369090	Angle Adjust Screw	RCC-1033	1
7-15	ZW414235	Washer A	CS-0025	1
7-16	ZW414246	Washer B	CS-0025	1
7-17	HE451945	ERASE HEAD E4-150		1
7-18	ZG369112	Head Base Return Spring	RCC-1035	1

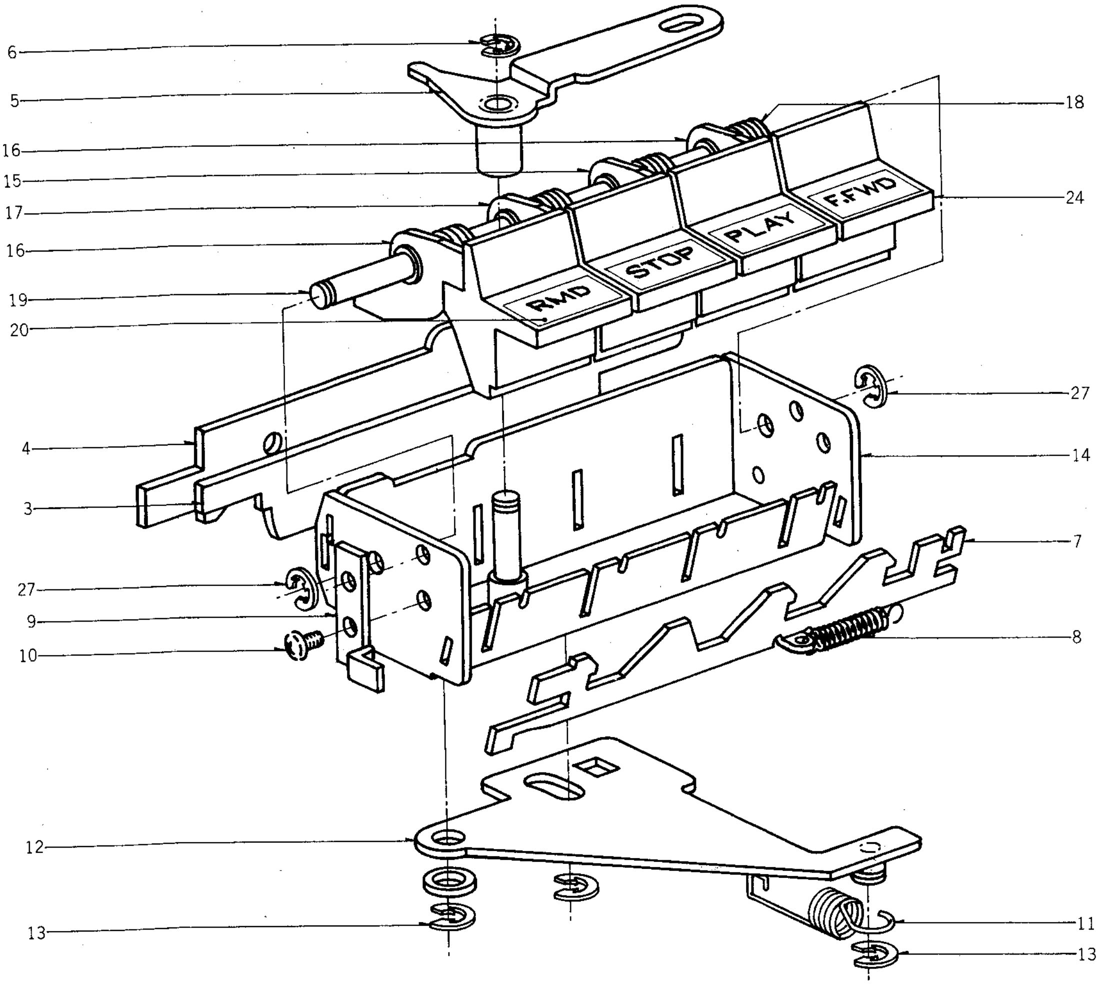
FIG. 8 ILLUSTRATION OF CASSETTE CASE BLOCK



CASSETTE CASE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
8-1x	BZ363960	Cassette Case Block Comp.	RS,RCC	1
8-2	UC366737	Cassette Case Cover	RCC-1206	1
8-3	UC366748	Slider D	RCC-1207	1
8-4	ZG451574	Slider Pull Spring	RCC-1207B	2
8-5	UC366772	Slider C	RCC-1210	1
8-6	UC493558	Retaining Plate A	RS-1225	1
8-7	UC493560	Retaining Plate B	RS-1225	1
8-8	ZG366783	Retaining Spring	RCC-1211	2
8-9	ZW417273	Screw, binding head 2.3x4		4
8-10	ZG366794	Cassette Return Spring	RCC-1212	2
8-11	ZW366750	Slider Graduated Screw	RCC-1208	3
8-12	ZW465254	Slide Washer D3.1x8x1t	RCC-1427	3
8-13	ZW273688	M2.3 Nut		3
8-14	UC494818	Slider Guide	RS-1228	2
8-15x	ZW417137	Screw, binding head 3x4		4
8-16	UC366895	Cassette Lock Lever	RCC-1219	1
8-17	ZG366906	Cassette Lock Spring	RCC-1220	2
8-18	ZW323728	Screw, binding head 3x5		4
8-19	UC366816	Main Lever A, w/lever D, bracket B	RCC-1214	1
8-20	UC364443	Main Lever B, w/bracket A	RCC-1214	1

FIG. 9 ILLUSTRATION OF KEYBOARD BLOCK

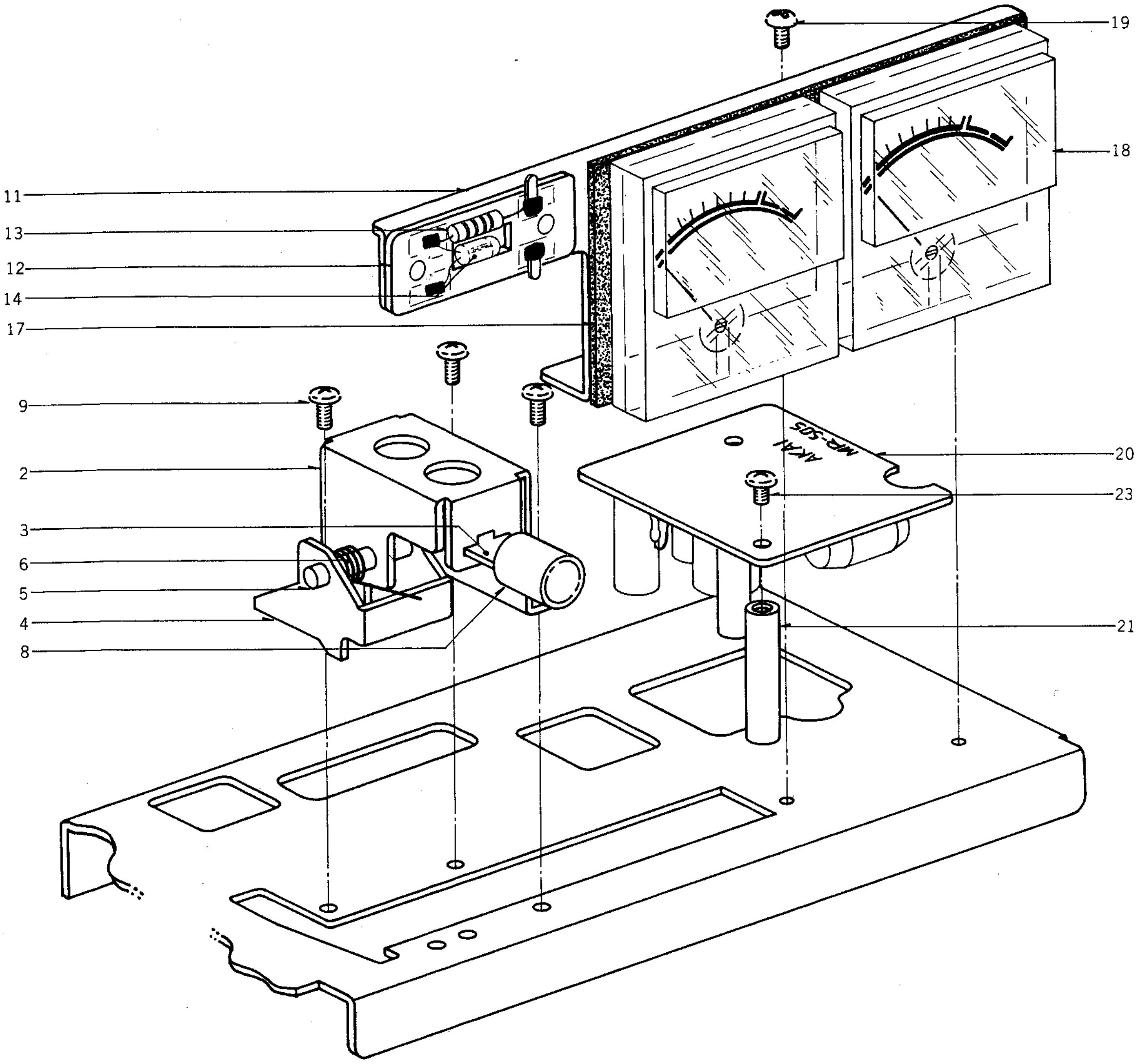


KEYBOARD BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
9-1x	BZ478552	Keyboard Block Comp.	RS	1
9-2x	ES477505	Keyboard Switch Comp. RS	25-5-53	1
9-3	UC367468	Keyboard Lever B	RCC-1275	1
9-4	UC367470	Keyboard Lever C	RCC-1276	1
9-5	UC367481	F. FWD Lever, w/metal	RCC-1277	1
9-6	ZW290283	'U' Ring 2.85M	6-1-1	1
9-7	UC367558	Keyboard Lever A	RCC-1281	1
9-8	ZG367110	SST Spring	RCC-1240	1
9-9	UC477516	Keyboard Stopper	RS-1133	1
9-10	ZW417273	Screw, binding head 2.3x4		2
9-11	ZG493514	Operation Lever Spring	RS-1227	1
9-12	UC495595	Operation Lever A, w/pin	RS-1226	1
9-13	ZW290283	'U' Ring 2.85M	6-1-1	3

Ref. No.	Parts No.	Description	Maker No.	Q'ty
9-2x	ES477505	Keyboard Switch Comp. RS	25-5-53	1
9-14	RS-K01	Keyboard Holder, w/shaft, pins	ME1-0104	1
9-15	RS-K05	Keyboard Lock Lever B, w/metal	ME2-0110	1
9-16	RS-K06	Keyboard Lock Lever A, w/metal	ME2-0120	2
9-17	RS-K07	Keyboard Lock Lever D, w/metal	ME2-0130	1
9-18	RS-K08	Keyboard RWD Spring C	ME2-2100	4
9-19	RS-K09	Keyboard Shaft	ME2-4100	1
9-20	RS-K11	Keyboard Name Plate A (RWD)	ME2-0510	1
9-21x	RS-K12	Keyboard Name Plate B (Stop)	ME2-0520	1
9-22x	RS-K13	Keyboard Name Plate C (Play)	ME2-0530	1
9-23x	RS-K14	Keyboard Name Plate D (F.FWD)	ME2-0540	1
9-24	RS-K15	Cassette Knob	ME2-6100	4
9-25x	RS-K16	Keyboard Stop	ME4-0100	1
9-26x	RS-K17	Graduated Screw	ME9-4300	1
9-27	RS-K18	'E' Ring	ME9-0600	2

FIG. 10 ILLUSTRATION OF CASSETTE REC. BUTTON/METER BASE BLOCK

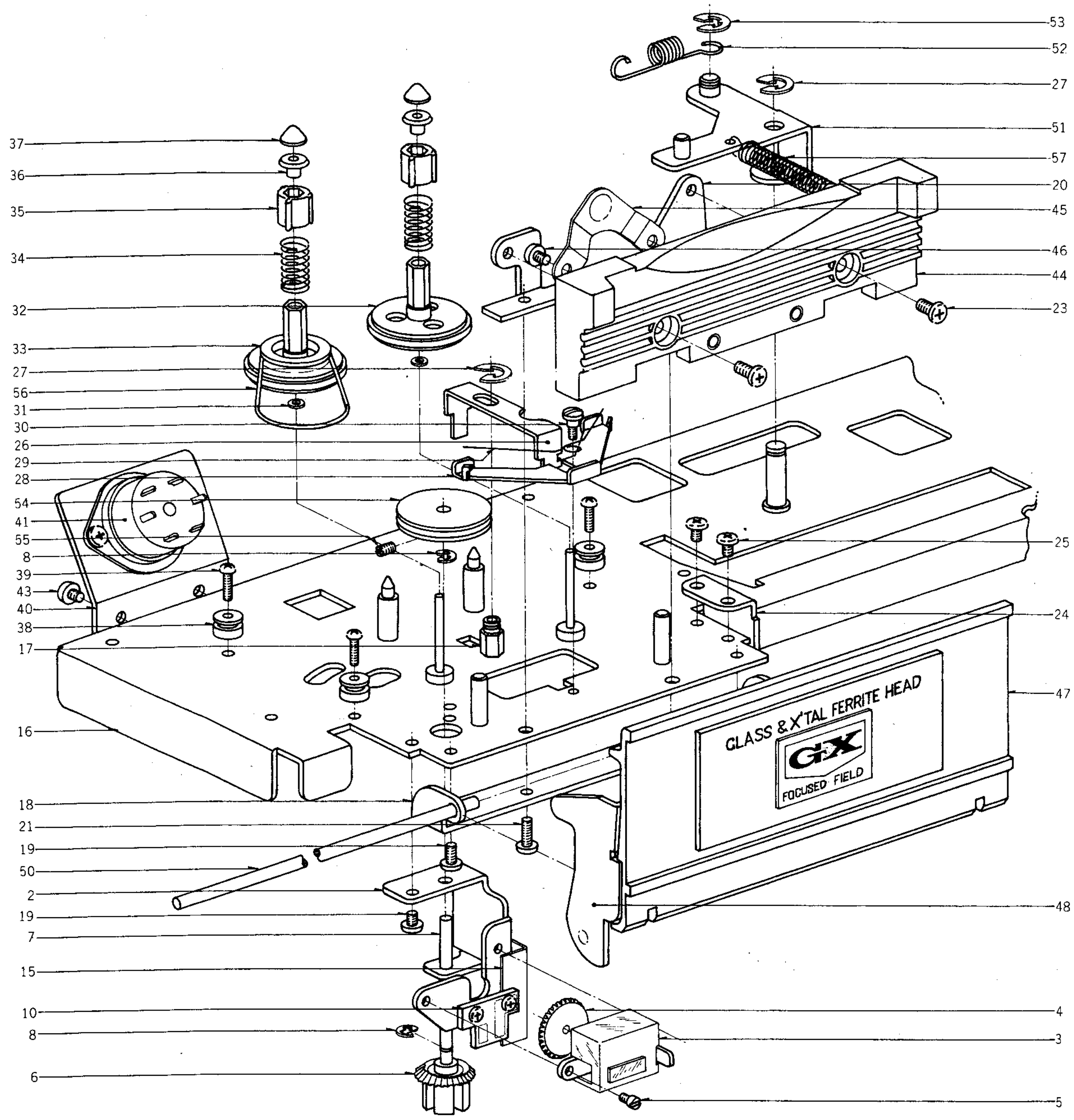


CASSETTE REC. BUTTON/METER BASE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	CASSETTE REC. BUTTON BLOCK			
10-1x	BZ478394	Cassette Rec. Button Block Comp.	RS	1
10-2	UC471284	Button Holder	RS-1201	1
10-3	UC471295	Button Lever	RS-1202	1
10-4	UC471306	Safety Lever	RS-1203	1
10-5	UC471317	Holder Shaft	RS-1204	1
10-6	ZG471330	Cassette Rec. Spring	RS-1215	1
10-7x	ZW290283	'U' Ring 2.85M	6-1-1	2
10-8	SB471328	Cassette Rec. Button	RS-1205	1
10-9	ZW323728	Screw, binding head 3x5		3

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	METER BASE BLOCK			
10-10x	BZ478416	Meter Base Block Comp.	RS	1
10-11	UC471060	Meter Base	RS-1102	1
10-12	EA479384	Lamp Board	RS-5014	2
10-13	ER347130	Solid/R. RC1/2W 82(K)	35-5-4	1
10-14	EL295312	No. 2 Lamp 8V 0.2A	28-2-8	1
10-15x	ZW484738	Insulated Washer	RS-5049	2
10-16x	EL390576	Pilot Lamp RM6-24V-50MA	28-2-6	1
10-17	UC471420	VU Meter Cushion	RS-1216	1
10-18	EM471273	VU Meter D-1914R	46-1-55	2
10-19	ZW447772	Tapping Screw 3x6 (BR)		2
10-20	BA478574	OSC. P.C. Board Comp. (MR-505)		1
10-21	UC366210	P.C. Board Prop	RCC-1102	2
10-22x	ZW413223	Screw, binding head 3x5, w/washer		1
10-23	ZW323728	Screw, binding head 3x5		1
10-24x	ZW413741	Screw, binding head 3x8		2

FIG. 11 ILLUSTRATION OF CASSETTE ASSEMBLY BLOCK I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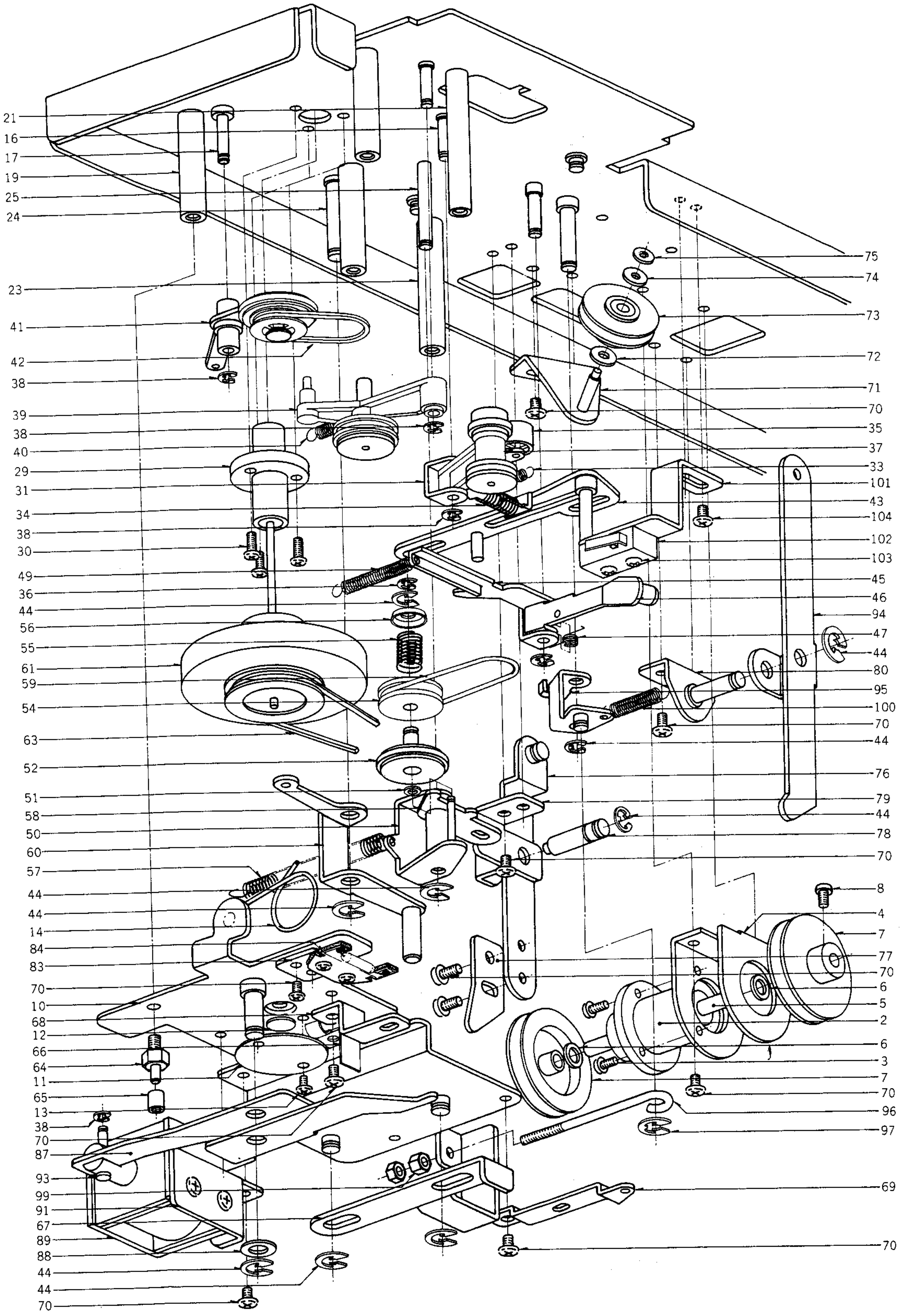
GX
FOCUSED FIELD

CASSETTE ASSEMBLY BLOCK I

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	CASSETTE COUNTER BASE BLOCK			
11-1x	BZ478405	Cassette Counter Base Block Comp.	RS	1
11-2	UC471374	Counter Mt. Plate	RS-1207	1
11-3	MC471363	Counter KMP-3813	9-1-22	1
11-4	UC471385	Counter Gear 2	RS-1210	1
11-5	ZW486268	Counter Set Screw	RS-1137	2
11-6	UC471396	Counter Gear 1	RS-1212	1
11-7	MS471407	Counter Shaft	RS-1208	1
11-8	ZW270088	'E' Ring 1.9M	6-1-9	2
11-9x	ZW484762	Washer (Teflon) D3.1x5x0.2t		1
11-10	EA471418	CDS P.C. Board	RS-1013	1
11-11x	ET368921	CDS P-320	45-9-1	1
11-12x	UC472263	CDS Cushion	RS-1130	1
11-13x	ZW417273	Screw, binding head 2.3x4		2
11-14x	ZW269785	M2.3 Toothed Lock Washer		1
11-15	UC488902	Lamp Mask	RS-1139	1
	CASSETTE ASSEMBLY BLOCK			
11-16	HZ471047	Cassette Frame, w/shafts	RS-1101	1
11-17	VM370023	Brake Lever Prop	RCC-1308	1
11-18	UC370080	Cover Bearing	RCC-1311	1
11-19	ZW323728	Screw, binding head 3x5		4
11-20	UC370091	Decorative Cover Angle	RCC-1312	1
11-21	ZW417025	Screw, binding head 3x8, w/washer		2
11-22x	UC366210	P.C. Board Prop	RCC-1102	2
11-23	ZW413741	Screw, binding head 3x8		4
11-24	UC370181	Keyboard Holder Retaining Plate	RCC-1321	1
11-25	ZW323728	Screw, binding head 3x5		2
11-26	UC370236	Brake Lever A	RCC-1326	1
11-27	ZW290283	'U' Ring 2.85M	6-1-1	2
11-28	UC370247	Brake Lever	RCC-1327	1
11-29	ZG370258	Brake Spring	RCC-1328	1
11-30	ZW344812	2.3 Graduated Screw	BT-126	1
11-31	ZW364342	Washer (Polyslider) D1.7x3.2x0.25t		2
11-32	UC370315	C type Reel Table A	RCC-1340	1
11-33	UC370337	C type Reel Table B	RCC-1342	1
11-34	ZG370350	Reel Table Spring	RCC-1344	2
11-35	ZG370361	C type Reel Table Blade	RCC-1345	2
11-36	UC370348	C type Reel Table Bush	RCC-1343	2
11-37	UC370372	C type Reel Shaft Cap	RCC-1346	2
11-38	UC488070	Head Base Guide	RX-1138	3
11-39	ZW417306	Screw, round head 2.3x8		3
11-40	UC365567	Connector Base A	RCC-1360	1
11-41	EJ365703	6P Socket	31-1-67	1
11-42x	EJ369077	Lug Plate VBL1	33-4-7	1
11-43	ZW447840	Tapping Screw #2 3x8(BR)		2
11-44	UC366388	Decorative Cover	RCC-1120	1
11-45	ZG366401	Cassette Retaining Spring	RCC-1122	1
11-46	ZW323728	Screw, binding head 3x5		2
11-47	UC471071	Cassette Cover, w/rivet, pin	RS-1213	1
11-48	UC488733	Cam Angle (RS), w/pin	RS-1224	1
11-49x	ZW464747	Screw, countersunk head 3x6		2
11-50	MS366480	Cassette Cover Shaft	RCC-1129	1
11-51	UC471082	Rec. Lever 2, w/pins	RS-1109	1
11-52	ZG471126	Adjust Spring 1	RS-1110	1
11-53	ZW270101	'E' Ring 3M	6-1-9	2
11-54	MR471150	Counter Pulley 1	RS-1211	1
11-55	ZW499454	Set Screw, hexagon socket 2.6x3 (cup)		1
11-56	MB471161	Counter Belt	RS-1122	1
11-57	ZG217337	Belt Return Spring	4TR-224	1

FIG. 12 ILLUSTRATION OF CASSETTE ASSEMBLY BLOCK II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CASSETTE ASSEMBLY BLOCK II

MIDDLE PULLEY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
12-1x	BZ478563	Middle Pulley Block Comp.	RS	1
12-2	UC367312	Pulley Metal Case, w/metal B	RCC-1260	1
12-3	ZW464692	Screw, binding head 2.3x6		3
12-4	UC472195	RS Metal Case Holder	RS-1125	1
12-5	UC367356	Pulley Shaft	RCC-1264	1
12-6	ZW259738	Washer (Polyslider) D4.1x7x0.25t		2
12-7	UC367345	Middle Pulley	RCC-1263	2
12-8	ZW461935	Screw, round head 2.6x4		4

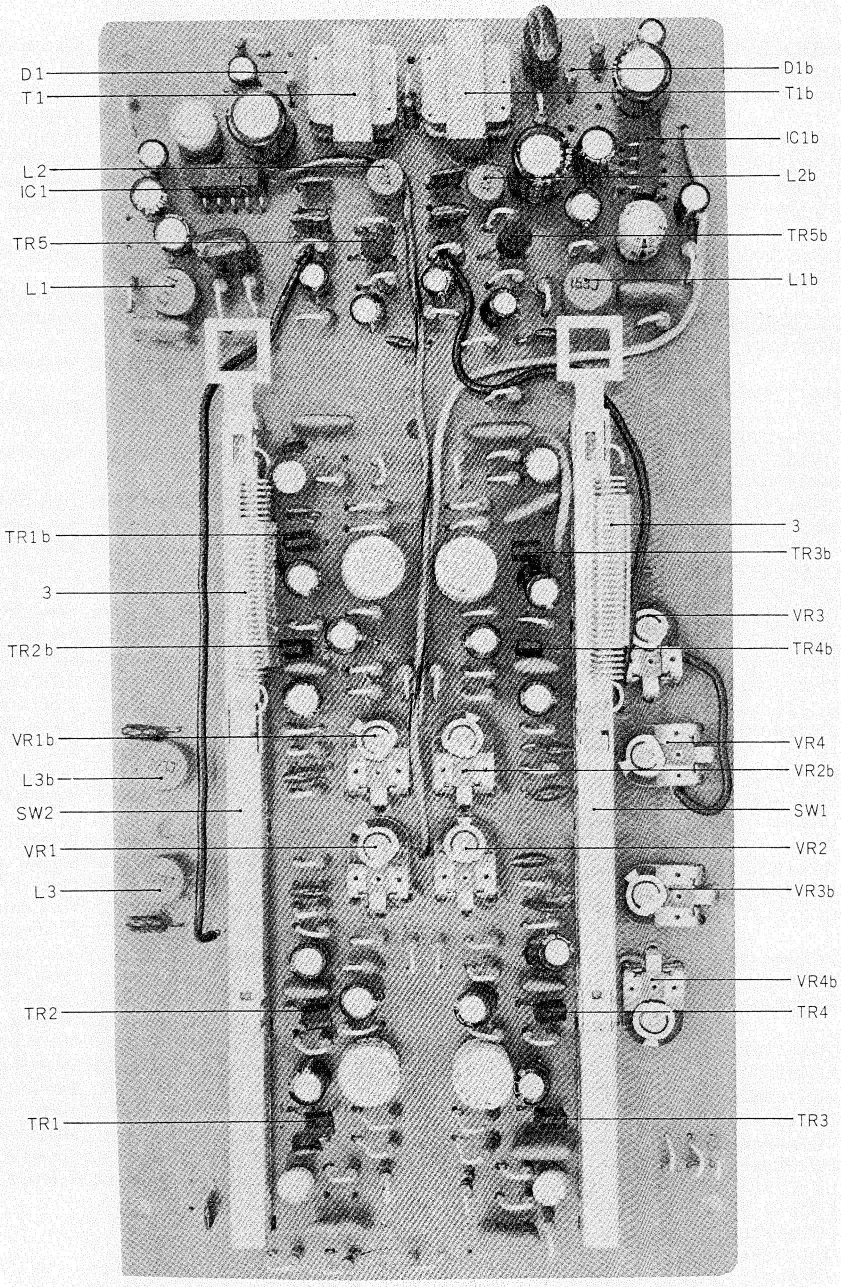
FLYWHEEL SUPPORT PLATE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
12-9x	BZ478541	Flywheel Support Plate Block Comp.	RS	1
12-10	MZ477494	Flywheel Support Plate B, w/shaft	RCC-1201 900-721	1
12-11	UC254250	Motor Bottom Plate		1
12-12	ZW235776	Nylon Plate D8		1
12-13	ZW427048	Screw, round head 3x3		2
12-14	ZG451552	Reject Spring	RCC-1143	1
12-15x	ZW270101	'E' Ring 3M	6-1-9	1

CASSETTE ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
12-16	MS370034	Idler Lever Shaft A	RCC-1309	1
12-17	UC373353	Idler Arm Shaft	RCC-1133	1
12-18x	ZW273756	M3 Nut		1
12-19	UC370102	Flywheel Prop A	RCC-1313	3
12-20x	ZW413741	Screw, binding head 3x8		7
12-21	UC370113	Keyboard Holder Prop	RCC-1314	1
12-22x	ZW414033	Screw, countersunk head 3x8		1
12-23	UC370124	Flywheel Prop B	RCC-1315	1
12-24	UC370135	Operation Lever Shaft	RCC-1316	1
12-25	UC370146	Idler Lever Shaft	RCC-1317	1
12-26x	ZW273688	M2.3 Nut		1
12-27x	ZW417227	Screw, binding head 2.3x5		1
12-28x	ZW273633	M2.3 Earth Lug		1
12-29	UC370192	Flywheel Metal Case, w/metal	RCC-1322	1
12-30	ZW464692	Screw, binding head 2.3x6		3
12-31	UC370260	Idler Lever C, w/shaft C	RCC-1335	1
12-32x	ZW474581	Washer (Teflon) D2.05x3.5x0.2t		2
12-33	ZG365422	Idler Lever B Spring	RCC-1394	1
12-34	ZG451530	Take-up Spring	RCC-1144	1
12-35	UC370282	Idler C	RCC-1337	1
12-36	ZW356657	'E' Ring 1.5M	6-1-9	2
12-37	UC368932	Idler Lever B Comp.	2-20-6	1
12-38	ZW270088	'E' Ring 1.9M	6-1-9	5
12-39	UC368910	Idler Lever A Comp.	2-20-5	1
12-40	ZG365433	Idler Tension Spring	RCC-1365	1
12-41	BZ373972	Take-up Arm Comp.	2-20-7	1
12-42	MB373386	Idler Arm Belt	RCC-1396	1
12-43	UC370427	Take-up Lever, w/pin	RCC-1351	1
12-44	ZW290283	'U' Ring 2.85M	6-1-1	10
12-45	UC365207	Brake Lever D	RCC-1373	1
12-46	UC451631	Lock Lever, w/pin	RCC-1140	1
12-47	ZG451563	Lock Lever Spring	RCC-1142	1
12-48x	ZW270088	'E' Ring 1.9M	6-1-9	1
12-49	ZG365218	Brake Lever Return Spring	RCC-1374	1
12-50	UC365220	Idler Lever D, w/shaft	RCC-1375	1
12-51	ZW381644	Washer (Polyslider) D2.1x4.0x0.13t		2
12-52	UC365242	Idler E, w/metal	RCC-1377	1
12-53x	UC365264	Friction Felt B	RCC-1379	1
12-54	UC365275	Idler Pulley B	RCC-1380	1
12-55	ZG365297	Clutch Spring B	RCC-1382	1
12-56	UC365670	Spring Holder	RCC-1371	1
12-57	ZG365321	Idler Lever Spring	RCC-1385	1
12-58	UC365308	Brake Lever C, w/metal	RCC-1383	1
12-59	MB365332	Idler Belt	RCC-1386	1
12-60	UC365376	Operation Lever B, w/prop	RCC-1390	1
12-61	UC366254	Flywheel, w/shaft	RCC-1107	1
12-62x	ZW259334	Washer (Polyslider) D2.05x3.5x0.25t		1
12-63	MB366287	Flywheel Belt A	RCC-1110	1
12-64	UC476820	Stopper Pin	RS-1131	1
12-65	UC486044	Stopper Pin Tube	RS-1223	1
12-66	SZ226282	Cord Holder, Standard	900-180	1
12-67	UC471352	Operation Lever	RS-1206	1
12-68	UC366491	Keyboard Supporting Plate A	RCC-1130	1
12-69	UC366502	Keyboard Supporting Plate B	RCC-1131	1
12-70	ZW323728	Screw, binding head 3x5		4
12-71	UC366232	Middle Pulley Bracket, w/shaft	RCC-1104	1
12-72	ZW429276	Washer (Rubber) D3.1x8x0.5t		1
12-73	UC366243	Flywheel Middle Pulley, w/metal	RCC-1105	1
12-74	ZW377414	Washer (SUP) D2.1x7x0.5t		1
12-75	ZW377425	Push Nut CS 2.0		1
12-76	UC471104	Rec. Lever 1, w/pin	RS-1108	1
12-77	UC471115	Adjust Lever	RS-1107	1
12-78	MS477922	Angle Shaft	RS-1127	1
12-79	UC477933	Lever Angle	RS-1124	1
12-80	UC471137	Lever Mt. Plate, w/prop	RS-1103	1
12-81x	EJ477944	9P Mate-N-Lock Comp.	RS-1129	1
12-82x	MB229138	Side Wire Band	2-35-1	2
12-83	UC471172	CDS Lamp Table	RS-1117	1
12-84	EA488867	Stop Lamp P.C. Board (RS)	RS-1140	1
12-85x	EL295312	No. 2 Lamp 8V 0.2A	28-2-8	1
12-86x	ZW417137	Screw, binding head 3x4		2
12-87	UC471262	Keyboard Return Lever	RS-1116	1
12-88	ZW399137	Washer (PBP) D5.1x10.3x0.25t		1
12-89	EP471183	Plunger Solenoid	44-1-46	1
12-90x	ED224526	Silicon Diode 10D1	45-2-11	1
12-91	UC471194	Plunger Plate	RS-1118	1
12-92x	EJ373623	Pin Contact 61116-1	52-1-1	1
12-93	ZW257477	Connecting Pin	RD-211	1
12-94	UC471205	Rec. Lever 5	RS-1105	1
12-95	UC471216	Stop Tip, w/pin	RS-1112	1
12-96	UC471238	Lock Rod	RS-1113	1
12-97	ZW270101	'E' Ring 3M	6-1-9	1
12-98x	ZW485728	M2.3 Nut		1
12-99	ZW415956	Lock Nut	CC-1036	1
12-100	ZG232121	Tension Lever Spring	MH-143	1
12-101	MZ471240	Micro Switch Table	RS-1120	1
12-102	ES477966	Micro Switch SS-5L	25-1-23	1
12-103	ZW202230	Screw, round head 2.3x10		2
12-104	ZW417137	Screw, binding head 3x4		2

FIG. 13 PHOTO OF PRE-AMP. P.C. BOARD (RS-5018)

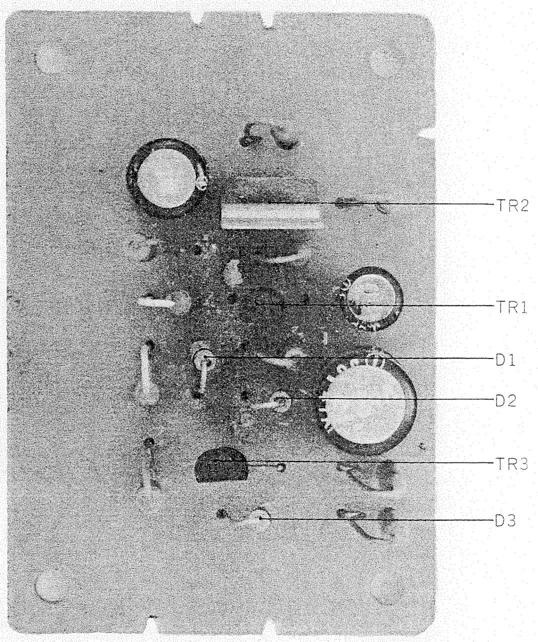

D1
T1
L2
IC1
TR5
L1
TR1b
3
TR2b
VR1b
L3b
SW2
VR1
L3
TR2
TR1
D1b
T1b
IC1b
L2b
TR5b
L1b
3
TR3b
VR3
TR4b
VR4
VR2b
SW1
VR2
VR3b
VR4b
TR4
TR3

PRE-AMP. P.C. BOARD (RS-5018) BLOCK

Symbol No.	Parts No.	Description	Q'ty
13-1x	BA478462	Pre-amp. P.C. Board Comp. (RS-5018)	1
13-2x	BA478473	Pre-amp. P.C. Board Comp. (RS-5018) (D)	1
13-IC1	EL412413	Line Amp. I.C. LD-3141	2
13-TR1, 2	ET234854	Transistor 2SC458LG(C)	4
13-TR3, 4	ET234854	Transistor 2SC458LG(C)	4
13-TR5	ET398845	Transistor 2SC871(E, F)	2
13-VR1	EV472162	Semi-fixed Volume TR93R103-2k B	2
13-VR2	EV472173	Semi-fixed Volume TR93R102-1k B	2
13-VR3, 4	EV472184	Semi-fixed Volume TR93R105-10k B	4
13-L1	E0478181	Ferri Inductor FL9H 15MH(J)	2
13-L2	E0243988	Ferri Inductor FL7H 3.3MH(J)	2
13-L3	E0244012	Ferri Inductor FL9H 22MH(J)	2
13-D1	ED219464	Germanium Diode 1N34A	2
13-T1	BT247746	Head Phone Trans. N19-228S	2
13-SW1, 2	ES227867	Slide Switch CL 1122B3500 (special)	2
13-3	ZG227441	Spring C	2

Symbol No.	Parts No.	Description	Q'ty
		Capacitor, Vertical Type	
13-C1	EC329850	VFM 220PF(J) 50WV	2
13-C2	EC476965	Elect. 47μF 25WV (noiseless)	2
13-C3	EC432810	Elect. 10μF 16WV (noiseless)	2
13-C4	EC250604	Mylar 0.001μF(K) 50WV	2
13-C5	EC220590	Elect. 33μF 10WV	2
13-C6	EC478124	VFM 68PF(K) 50WV	2
13-C7	EC389485	Mylar 0.018μF(J) 50WV	2
13-C8	EC220994	Elect. 10μF 25WV	2
13-C9	EC329771	Elect. 47μF 6.3WV	2
13-C10	EC476954	Elect. 100μF 25WV (noiseless)	2
13-C11	EC429851	VFM 680PF(J) 50WV	2
13-C12	EC432810	Elect. 10μF 16WV (noiseless)	2
13-C13	EC478124	VFM 68PF(K) 50WV	2
13-C14	EC220590	Elect. 33μF 10WV	2
13-C15	EC478124	VFM 68PF(K) 50WV	2
13-C16	EC220994	Elect. 10μF 25WV	2
13-C17	EC329771	Elect. 47μF 6.3WV	2
13-C18	EC389485	Mylar 0.018μF(J) 50WV	2
13-C19	EC220151	Elect. 100μF 25WV	2
13-C21	EC320051	Elect. 10μF 16WV	2
13-C22	EC220364	Elect. 100μF 6.3WV	2
13-C23	EC478146	FM 430PF(J) 500WV	2
13-C24	EC220994	Elect. 10μF 25WV	2
13-C25	EC329771	Elect. 47μF 6.3WV	2
13-C27	EC220465	Elect. 22μF 6.3WV	2
13-C28	EC446297	Mylar 0.18μF(J) 50WV	2
13-C29	EC220151	Elect. 100μF 25WV	1
13-C30	EC320051	Elect. 10μF 16WV	2
13-C31	EC329861	Mylar 0.027μF(J) 50WV	2
13-C32	EC250975	Mylar 0.015μF(J) 50WV	2
13-C33	EC331828	Elect. 3.3μF 25WV	2
13-C34	EC478168	FM 270PF(J) 500WV	2
13-C35	EC350875	Mylar 0.001μF(J) 50WV	2
13-C36	EC379721	Mylar 0.0012μF(J) 50WV	2
13-C37	EC350875	Mylar 0.001μF(J) 50WV	2
		Resistor, Stopper Type	
13-R2	ER430086	Carbon RD1/4 560k(J)	2
13-R3	ER211757	Carbon RD1/4 100k(J)	2
13-R4	ER212264	Carbon RD1/4 22k(J)	2
13-R5, 6	ER211757	Carbon RD1/4 100k(J)	4
13-R7	ER424855	Carbon RD1/4 150k(J) (noiseless)	2
13-R8	ER212477	Carbon RD1/4 3.3k(J)	2
13-R9	ER212883	Carbon RD1/4 4.7k(J)	2
13-R10	ER212264	Carbon RD1/4 22k(J)	2
13-R11	ER211757	Carbon RD1/4 100k(J)	2
13-R12	ER212477	Carbon RD1/4 3.3k(J)	2
13-R13	ER211757	Carbon RD1/4 100k(J)	2
13-R14,15	ER212883	Carbon RD1/4 4.7k(J)	4
13-R16	ER306360	Carbon RD1/4 6.8k(J)	2
13-R17	ER211858	Carbon RD1/4 12k(J)	2
13-R18,19	ER211757	Carbon RD1/4 100k(J)	4
13-R20	ER424855	Carbon RD1/4 150k(J) (noiseless)	2
13-R21	ER212477	Carbon RD1/4 3.3k(J)	2
13-R22	ER349828	Carbon RD1/4 20k(J)	2
13-R23	ER211757	Carbon RD1/4 100k(J)	2
13-R24	ER212477	Carbon RD1/4 3.3k(J)	2
13-R25	ER350100	Carbon RD1/4 68k(J)	2
13-R26	ER352045	Carbon RD1/4 3.9k(J)	2
13-R27	ER336442	Carbon RD1/4 10k(J)	2
13-R28	ER212883	Carbon RD1/4 4.7k(J)	2
13-R29	ER211858	Carbon RD1/4 12k(J)	2
13-R30	ER306843	Carbon RD1/4 1.2k(J)	2
13-R31	ER349942	Carbon RD1/4 8.2k(J)	2
13-R32	ER336442	Carbon RD1/4 10k(J)	2
13-R33	ER306360	Carbon RD1/4 6.8k(J)	2
13-R34	ER450011	Carbon RD1/4 120k(J)	2
13-R35	ER336442	Carbon RD1/4 10k(J)	2
13-R36	ER306887	Carbon RD1/4 15k(J)	2
13-R37	ER211465	Carbon RD1/4 1k(J)	2
13-R38	ER211667	Carbon RD1/4 100(J)	1
13-R39	ER379675	Carbon RD1/4 51k(J)	2
13-R40	ER212883	Carbon RD1/4 4.7k(J)	2
13-R41	ER346601	Carbon RD1/4 47k(J)	2

FIG. 14 PHOTO OF SYS. CON. P.C. BOARD (RS-1142)



SYS. CON. P.C. BOARD (RS-1142) BLOCK

Symbol No.	Parts No.	Description	Q'ty
14-1x	BA478427	Sys. Con. P.C. Board Comp. (RS-1142)	1
14-TR1	ET478001	Transistor 2SC945(P, Q)	1
14-TR2	ET465208	Transistor 2SC1098(L, K)	1
14-TR3	ET398711	Transistor 2SC945(Q, R)	1
14-D1,2,3	ED219464	Germanium Diode 1N34A	3
		Capacitor, Vertical Type	
14-C1	EC346735	Elect. 47μF 50WV	1
14-C3	EC320040	Elect. 47μF 16WV	1
		Resistor, Stopper Type	
14-R1	ER212883	Carbon RD1/4 4.7k(J)	1
14-R2	ER349907	Carbon RD1/4 33k(J)	1
14-R3	ER212883	Carbon RD1/4 4.7k(J)	1
14-R4	ER346601	Carbon RD1/4 47k(J)	1
14-R5	ER212883	Carbon RD1/4 4.7k(J)	1
14-R6	ER430018	Carbon RD1/4 1(J)	1
14-R7, 8	ER357456	Carbon RD1/4 2.2k(J)	2
14-R9	ER211465	Carbon RD1/4 1k(J)	1
14-R10	ER336442	Carbon RD1/4 10k(J)	1
14-R11	ER212264	Carbon RD1/4 22k(J)	1
14-R12	ER477527	Cement S3W 85(K) (Wire-wound type)	1

FIG. 15 PHOTO OF OSC. P.C. BOARD (MR-505)

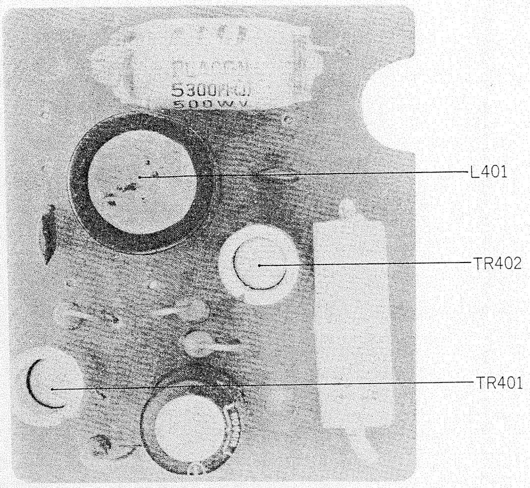
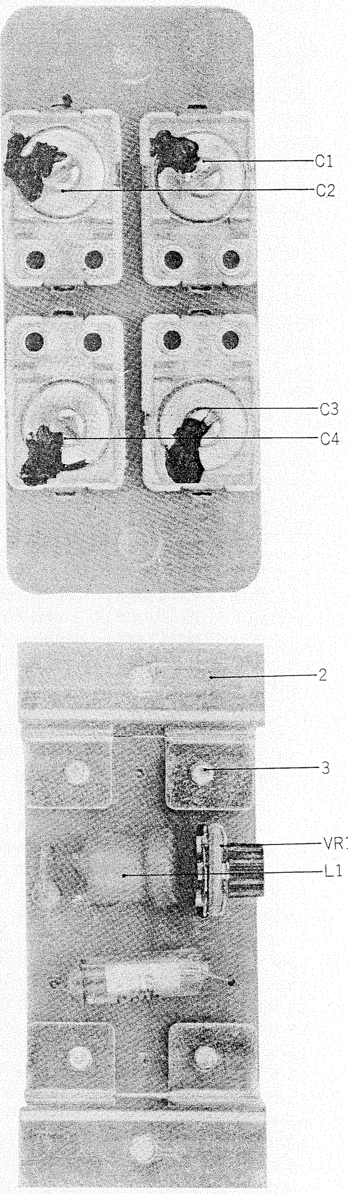


FIG. 16 PHOTO OF BIAS ADJUST P.C. BOARD (RS-5015, 16)



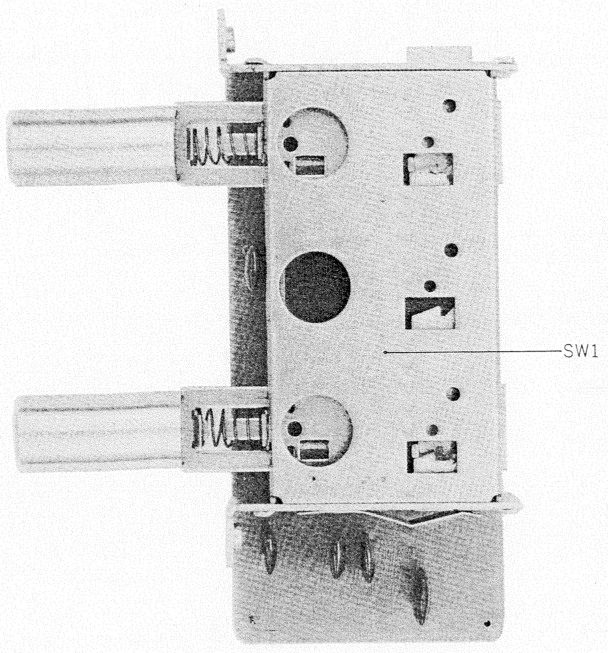
OSC. P.C. BOARD (MR-505) BLOCK

Symbol No.	Parts No.	Description	Q'ty
15-1x	BA478574	OSC. P.C. Board Comp. (MR-505)	1
15-TR401,2	ET304255	Transistor 2SC971(2, 3) (red)	2
15-L401	E0315898	OSC. Coil OT-104A	1
		Capacitor, Vertical Type	
15-C401	EC220678	Elect. 47μF 25WV	1
15-C402	EC246137	Plustic Film 2000PF(J) 500WV	1
15-C403,4	EC250841	Mylar 0.01μF(J) 50WV	2
		Resistor, Stopper Type	
15-R401	ER492952	Cement S3W 100(K) (Wire-wound type)	1
15-R402	ER315944	Carbon RD1/4 3.3(J)	1
15-R403	ER212883	Carbon RD1/4 4.7k(J)	1
15-R404	ER304378	Carbon RD1/4 470(J)	1
15-R405	ER315944	Carbon RD1/4 3.3(J)	1

BIAS ADJUST P.C. BOARD (RS-5015, 16) BLOCK

Symbol No.	Parts No.	Description	Q'ty
16-1x	BA478451	Bias Adjust P.C. Board Comp. (RS-5015, 16)	1
16-L1	E0443722	Ferri Inductor FL9H 1MH(J)	1
16-VR1	EV406901	Semi-fixed Volume V10K-5 100k B	1
16-2	EZ478113	Bias Adjust Card Mt. Metal	2
16-3	ZW419782	Screw, binding head 2.6x5	4
16-4x	ZW317801	M2.6 Toothed Lock Washer	2
		Capacitor, Vertical Type	
16-C1,2,3,4	EC398878	Trimmer C-1P-2 70PF	4
16-C5	EC489014	Styrol 470PF(J) 250WV (tubular type)	1
16-R1	ER346601	Carbon Resistor RD1/4 47k(J)	1

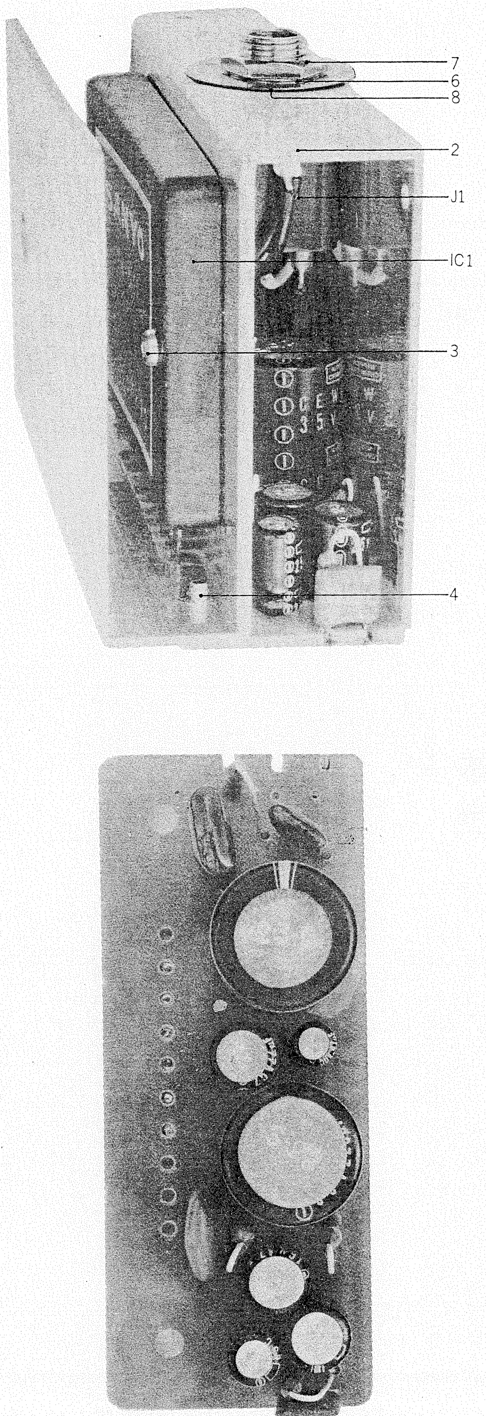
FIG. 17 PHOTO OF MODE SWITCH P.C. BOARD (RS-5017)



MODE SWITCH P.C. BOARD (RS-5017) BLOCK

Symbol No.	Parts No.	Description	Q'ty
17-1x	BA478484	Mode Switch P.C. Board Comp. (RS-5017)	1
17-SW1	ES447827	Push Switch UM32420	1
		Capacitor, Vertical Type	
17-C1,2,3,4	EC302297	Mylar 0.018μF(K) 50WV	4
17-C5	EC379157	Mylar 0.033μF(J) 50WV	1

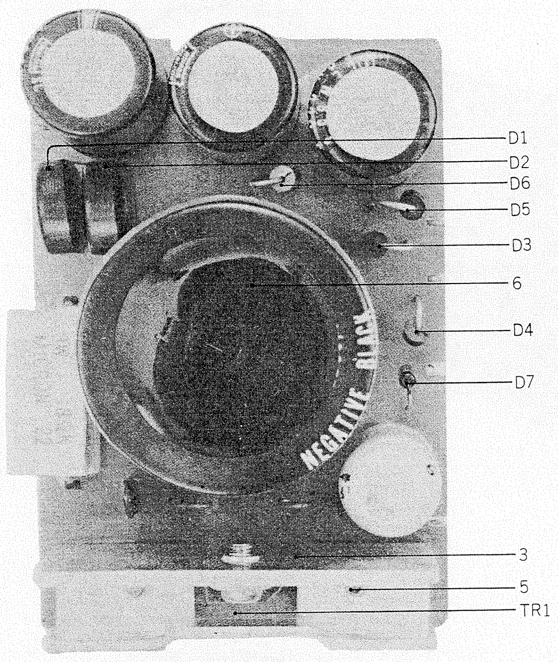
FIG. 18 PHOTO OF POWER AMP. P.C. BOARD (ED-515)



POWER AMP. P.C. BOARD (ED-515) BLOCK

Symbol No.	Parts No.	Description	Q'ty
18-1x	BA478528	Power Amp. P.C. Board Comp. (ED-515)	1
18-IC1	EI372126	I.C. STK-011(A)	1
18-J1	EJ454858	Mic. Jack 2PMJ1	1
18-2	BC371428	Power Amp. Case	1
18-3	ZW375085	Tapping Screw #2 2.6x12 (round)	2
18-4	ZW447772	Tapping Screw 3x6(BR)	2
18-5x	ZW272722	M9 Toothed Lock Washer D9.3x13x0.5t	1
18-6	ZW376481	Jack Thin Washer (SUP) D9.1x11.7x0.25t	1
18-7	ZW375153	E Jack Nut	1
18-8	ZW446984	Washer (Polyslider) D9x22x0.25t	1
18-9x	EZ328331	Fasten Receptacle 170043-2	2
		Capacitor, Vertical Type	
18-C1	EC350684	Elect. 22μF 25WV	1
18-C2	EC290507	VFM 150PF(K) 50WV	1
18-C3	EC372148	Elect. 220μF 35WV	1
18-C4	EC220994	Elect. 10μF 25WV	1
18-C5	EC320040	Elect. 47μF 16WV	1
18-C6	EC350684	Elect. 22μF 25WV	1
18-C7	EC290507	VFM 150PF(K) 50WV	1
18-C8	EC450281	Elect. 0.47μF 50WV	1
18-C9	EC450270	Elect. 1000μF 25WV	1
18-C10	EC308711	Mylar 0.047μF(K) 50WV	1
18-C11	EC251291	Mylar 0.1μF(K) 50WV	1
		Resistor, Stopper Type	
18-R1	ER336442	Carbon RD1/4 10k(J)	1
18-R2	ER361642	Carbon RD1/4 47(J)	1
18-R3	ER346544	Carbon RD1/4 3k(J)	1
18-R4	ER399723	Carbon RD1/4 4.7(J)	1

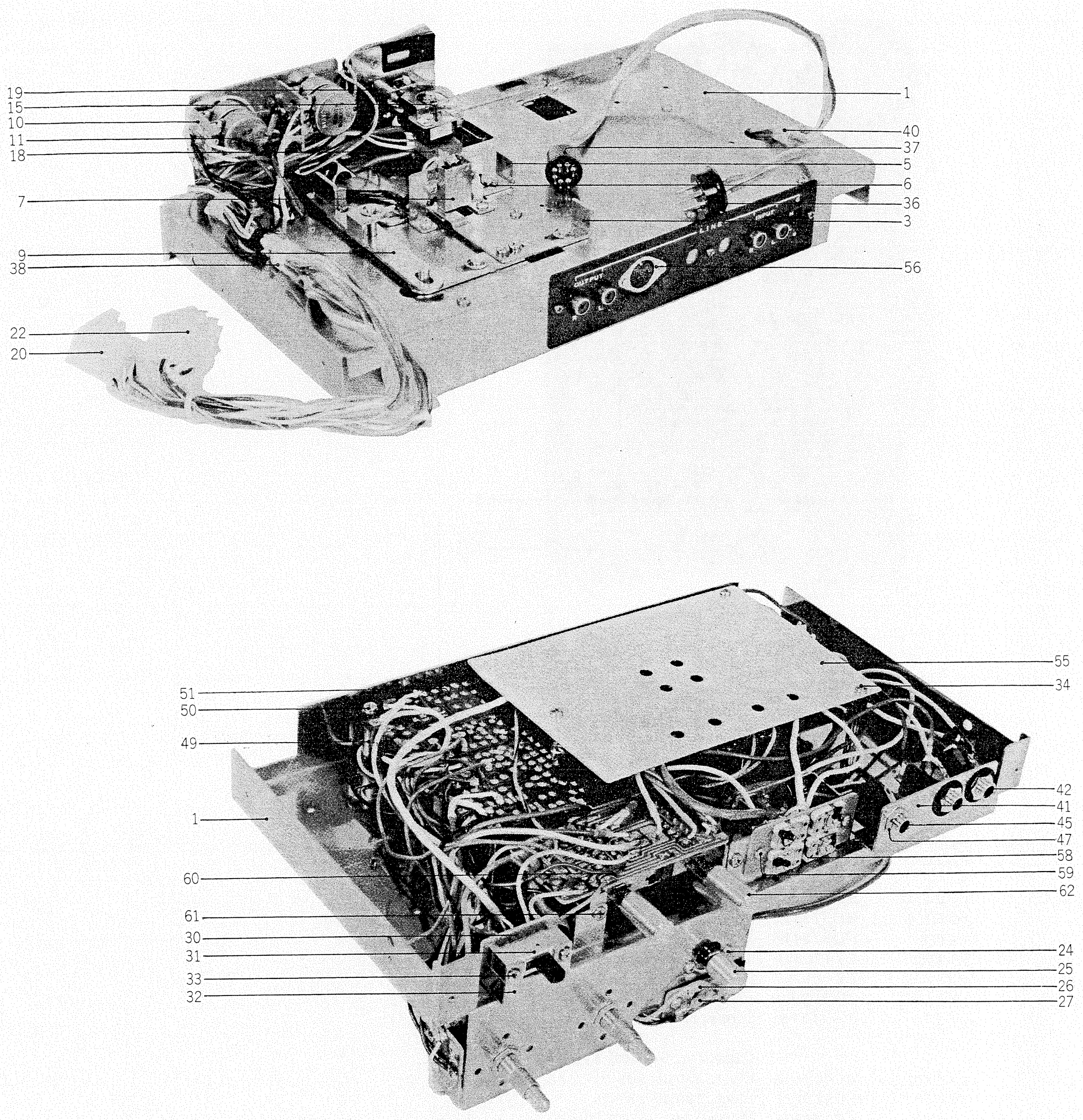
FIG. 19 PHOTO OF POWER SUPPLY P.C. BOARD (RS-5025)



POWER SUPPLY P.C. BOARD (RS-5025) BLOCK

Symbol No.	Parts No.	Description	Q'ty
19-1x	BA478350	Power Supply P.C. Board Comp. (RS-5025)	1
19-2x	BA478361	Power Supply P.C. Board Comp. (RS-5025) (D)	1
19-D1,2	ED329130	Silicon Diode 10DC-1 (black)	1
19-D3,4,5,6	ED375592	Silicon Diode V06B	4
19-D7	ED315415	Zener Diode RD-24A (MN)	1
19-TR1	ET476886	Transistor 2SC1098(L, M)	1
19-3	EZ471767	Heat-sink Plate	1
19-4x	ZW392940	Insulated Washer G-473025-1	1
19-5	ZW413155	Screw, binding head 3x6	3
		Capacitor, Vertical Type	
19-C1,2,3	EC403468	Elect. 330μF 50WV	3
19-C4	EC313121	Elect. 220μF 25WV	1
19-C5	EC383501	Mylar 0.001μF(M) 50WV	1
		Resistor, Stopper Type	
19-R1	ER395741	Cement 3W 18(K) (Wire-wound type)	1
19-R2	ER212883	Carbon RD1/4 4.7k(J)	1
19-R3	ER361642	Carbon RD1/4 47(J)	1
19-6	EC368695	Elect. Capacitor 2200μF 50WV (Lug type) (C1) (GX-1900)	1

FIG. 20 PHOTO OF AMP. ASSEMBLY BLOCK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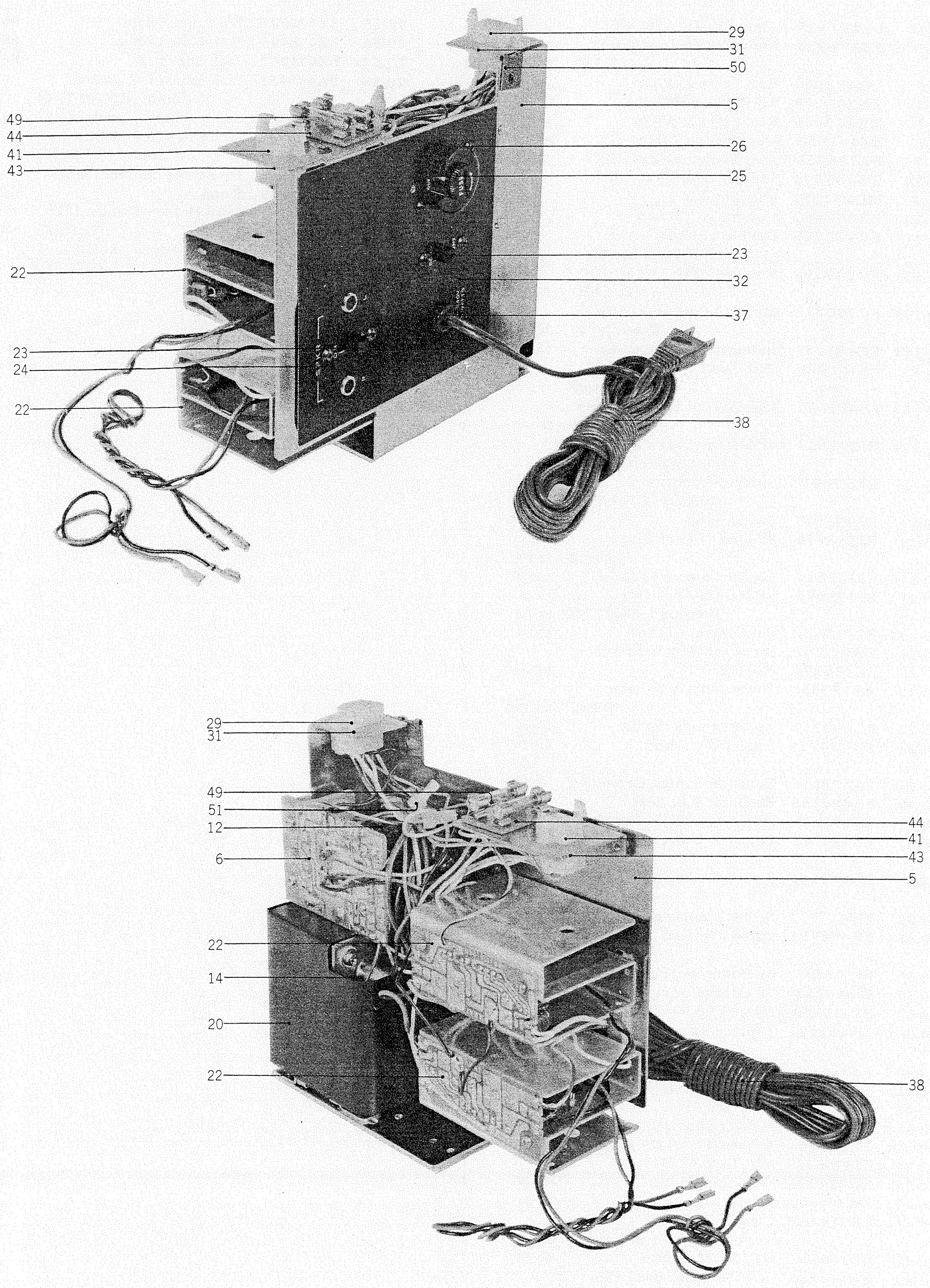
AMP. ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
20-1	EZ471925	Amp. Chassis A, w/prop	RS-5001	1
20-2x	EZ471936	Amp. Chassis D, w/prop (D, CEE)	RS-5001	1
20-3	ML472050	Rec. Lever 4, w/pin	RS-5005	1
20-4x	ZW290283	'U' Ring 2.85M	6-1-1	4
20-5	ML472048	Rec. Lever 3, w/pin	RS-5004	1
20-6	EZ471958	Mute Switch Table	RS-5029	1
20-7	EZ486753	Snap Switch SAR-21HB	25-9-2	1
20-8x	ZW447772	Tapping Screw 3x6 (BR)		4
20-9	ML472072	Rec. Lever 6	RS-5007	1
20-10	EA449460	Volume P.C. Board	BS-5009	2
20-11	EV472026	Double Volume D24R-100k B, 10k A	36-3-40	2
20-12x	EV249298	Volume V24L5N 25R 10k A (D, CEE)	36-2-16	2
20-13x	EC250841	Mylar/C. 0.01μF(J) 50WV (Vert. type)	24-1-1	2
20-14x	EZ488237	Insulated Seat (D, CEE)	RS-5051	1
20-15	ES468426	Push Switch UEH-12BFN (Power)	25-5-58	1
20-16x	ES499972	Push Switch JS-09 (Power) (D, CEE)	25-5-67	1
20-17x	EJ299823	6P Mate-N-Lock Cap Housing 1-480276-0 (D, CEE)	52-1-2	1
20-18	ER376413	Spark Quencher U/L 0.033μ+120 500WV	41-1-37	1
20-19	EZ472037	Switch Prop	RS-5002	2
20-20	EJ368796	9P Mate-N-Lock Plug Housing	52-1-2	1
20-21x	EJ373634	Socket Contact 61115-1	52-1-1	9
20-22	EJ373691	9P Mate-N-Lock Cap Housing 1-480277-0	52-1-2	1
20-23x	EJ373623	Pin Contact 61116-1	52-1-1	9
20-24	ZW323728	Screw, binding head 3x5		2
20-25	SK436274	Knob B	MC-5011	1
20-26	EA488856	Power Indicating Lamp Board	RS-5053	1
20-27	EL295312	No. 2 Lamp 8V 0.2A	28-2-8	1
20-28x	ZW484738	Insulated Washer	RS-5049	1
20-29x	BA478056	Equalizer Switch Comp. RS	RS-5046	1
20-30	EA472138	Equalizer P.C. Board	RS-5010	1
20-31	ES446973	Slide Switch SL-242B4D	25-3-51	1
20-32	EZ472127	Equalizer Switch Retaining Metal	RS-5009	1
20-33	ZW442585	Screw, binding head 2.6x4		2
20-34	ZW417137	Screw, binding head 3x4		8
20-35x	ER488711	Carbon/R. RD1/4 2(J) (Insu. type)	35-9-5	1
20-36	EJ303805	6P Connector Plug	42-1-21	1
20-37	EJ390453	7P Connector Plug S-17302	42-1-40	1
20-38	EZ419760	Nylon Clip HP-7N		2
20-39x	ZW462194	Tapping Screw #2 3x8 (pan), w/washer		3
20-40	EZ328320	Nylon Clip HP-5N		1
20-41	EZ472015	Front Jack Mt. Metal	RS-5008	1
20-42	EJ315281	Mic. Jack 2PMJ1	31-2-19	2
20-43x	EZ225180	Nylon Collar, Jack	LD-520	2
20-44x	ZW260368	Washer (Fiber) D9.2x18x0.5t		2
20-45	EJ376604	Mic. Jack 3PMJ1	31-2-17	1
20-46x	ZW224976	Jack Thin Washer	DX-509	1
20-47	ZW391680	E Jack Nut	7-1-20	3
20-48x	ER214290	Carbon/R. RD1/4 4.7k(J) (Insu. type)	35-9-5	2
20-49	EZ246644	P.C. Board Prop B	RD-519	7
20-50	ZW413155	Screw, binding head 3x6		7
20-51	BA478462	Pre-amp. P.C. Board Comp. (RS-5018)		1
20-52x	BA478473	Pre-amp. P.C. Board Comp. (RS-5018) (D)		1
20-53x	EZ327047	P.C. Board Prop	SX-513	3
20-54x	ZW413728	Screw, binding head 3x6, w/washer		4
20-55	EZ472004	Pre Amp. Shield	RS-5019	1
20-56	BZ478495	Jack Plate Comp.	RS-5036	1
20-57x	EZ471947	Jack Shield	RS-5011	1
20-58	BA478451	Bias Adjust P.C. Board Comp. (RS-5015,16)		1
20-59	ZW419782	Screw, binding head 2.6x5		2
20-60	BA478484	Mode Switch P.C. Board Comp. (RS-5017)		1
20-61	ZW379405	Iso Screw, binding head 3x6		2
20-62	SK441628	Knob A	KF-2018	2
20-63x	SZ226282	Cord Holder, Standard B (D, CEE)	900-180	1
20-64x	ZW447772	Tapping Screw 3x6(BR) (D, CEE)		1

FIG. 21 PHOTO OF POWER SUPPLY BLOCK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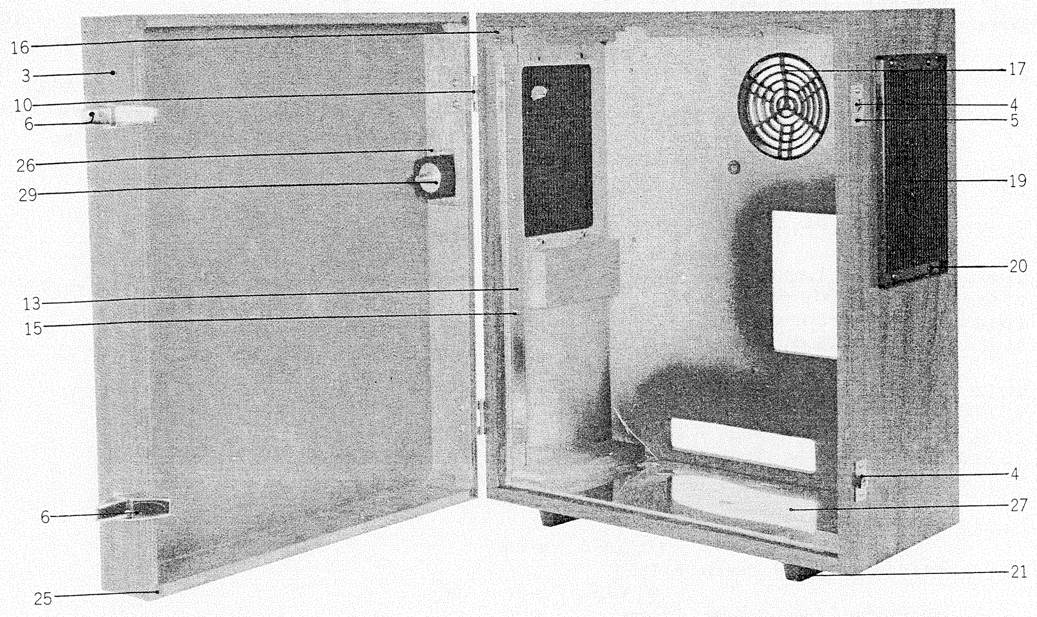
POWER SUPPLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
21-1x	BP478337	Power Supply Block Comp.		1
21-2x	BP478348	Power Supply Block Comp. (D)		1
21-3x	BP488272	Power Supply Block Comp. (D, CEE)		1
21-4x	BP510243	Power Supply Block Comp. (D, AAL)		1
21-5	EZ471677	Power Chassis, w/angle	RS-5020	1
21-6	BA478350	Power Supply P. C. Board Comp. (RS-5025)		1
21-7x	BA478361	Power Supply P.C. Board Comp. (RS-5025) (D)		1
21-8x	ZW447772	Tapping Screw 3x6 (BR)		11
21-9x	HZ305460	Cartridge Prop	RC-135	1
21-10x	ZW413741	Screw, binding head 3x8		1
21-11x	ZW413728	Screw, binding head 3x6, w/washer		1
21-12	EC368695	Elect. 2200μF 50WV	24-10-45	1
21-13x	ZW413256	Washer (SPC)D3.4x7.8x0.5t		2
21-14	BT471688	Power Trans. RST-1	38-4-164	1
21-15x	BT471690	Power Trans. RST-2 (D)	38-4-165	1
21-16x	BT471712	Power Trans. RST-4 (D, CEE)	38-4-159	1
21-17x	BT499915	Power Trans. RST-6 (D, AAL)	38-4-182	1
21-18x	EJ373634	Socket Contact 61115-1 (D, CEE)	52-1-1	4
21-19x	ZW200700	Tapping Screw #2 4x8 (round)		4
21-20	EZ368548	Trans. Shield	RCC-543	1
21-21x	ZW417137	Screw, binding head 3x4		1
21-22	BA478528	Power Amp. P.C. Board Comp. (ED-515)		1
21-23	ES375478	Slide Switch ESD-279DU	25-3-23	2
21-24	ZW372025	Iso Screw, truss head 3x6 (black)		4
21-25	EJ233370	Power Plug Socket S-18010	40-2-3	1
21-26	ZW374128	Iso Screw, truss head 3x8		2
21-27x	EF338387	Fuse ST-2 1.5A	39-1-26	1
21-28x	EF277402	Fuse ST-2 1A (D)	39-1-26	1
21-29	EJ477808	9P Mate-N-Lock Comp.	RS-5040	1
21-30x	EJ477810	9P Mate-N-Lock Comp. (D, D,CEE)	RS-5040	1
21-31	EZ368526	Mate-N-Lock Cap. Mt. Plate	RCC-541	1
21-32	SM471723	Power Supply Name Plate A	RS-5021	1
21-33x	SM471734	Power Supply Name Plate D (D)	RS-5022	1
21-34x	SM488171	Power Supply Name Plate (D, CEE)	RS-5050	1
21-35x	SM499926	Power Supply Name Plate (D, AAL)	RS-5058	1
21-36x	ZW201150	Screw, truss head 3x6		1
21-37	EZ382263	Strain Relief SR-4K-4	2-7-12	1
21-38	EZ374894	U/L AC Cord 3M	26-3-19	1
21-39x	EZ354240	Power Supply Cord ER0150 (D, CEE)		1
21-40x	EZ246936	Strain Relief SR-6W-1(3 core)	2-7-8	1
21-41	EJ477821	6P Mate-N-Lock Comp.	RS-5041	1
21-42x	EJ477832	6P Mate-N-Lock Comp. (D)	RS-5041	1
21-43	EZ471745	Fuse Holder Mt. Metal	RS-5024	1
21-44	EJ302062	2P Fuse Holder	40-1-1	1
21-45x	EJ254970	Lug Plate KP1L1 (D, AAL)	33-3-3	1
21-46x	EF460653	Fuse ST-1 1A (D, AAL)	39-1-25	1
21-47x	EZ499432	Mate-N-Lock Mt. Table Comp. (D, CEE)	RS-5057	1
21-48x	EZ498936	Mate-N-Lock Mt. Angle (D, CEE)	RS-5056	1
21-49	EF428815	Fuse 0.9A 0.9	39-1-38	2
21-50	ZW290250	U type Speed Nut M4 #1 (large)	6-3-2	1
21-51	EJ205975	Cramp Terminal 1-SD	32-1-7	2
21-52x	EJ488193	Fuse Holder (D, CEE)	101060	1
21-53x	EF375647	Fuse (T type) 500MAT (D, CEE)		2
21-54x	EF295188	Fuse (T type) 630MAT (D, CEE)		1
21-55x	ZW201183	Screw, truss head 3x8 (D, CEE)		2
21-56x	ZW273756	M3 Nut (D, AAL)		1
21-57x	EZ315448	Australia Cord (3 core)	26-3-11	1
21-58x	ZW273778	M3 Earth Lug		2

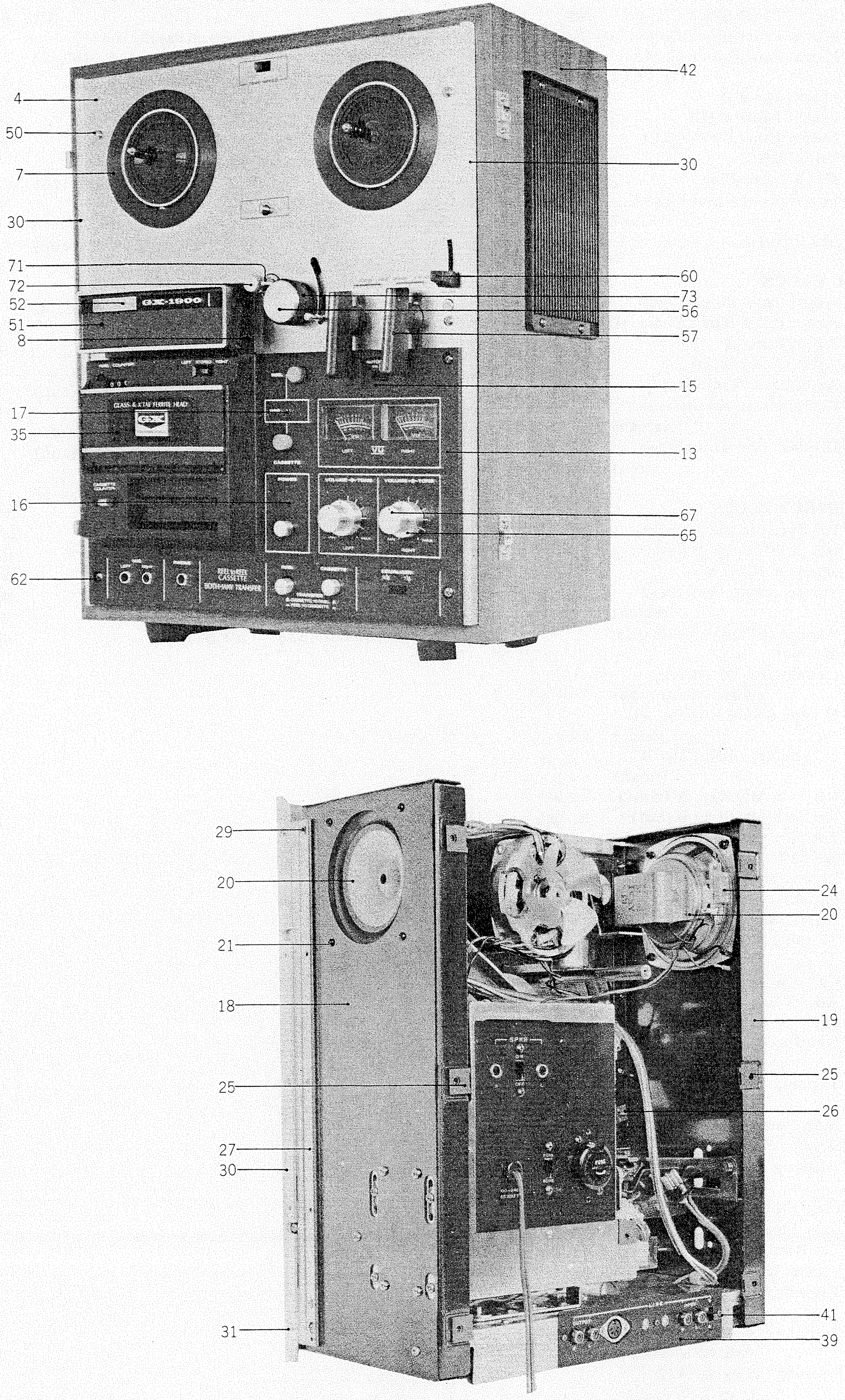
FIG. 22 PHOTO OF CASE BLOCK



CASE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
22-1x	BC478271	Case Block Comp.		1
22-2x	BC478282	Case Block Comp.		1
22-3	BC867126	RS Wood Case Front Cover		1
22-4	SZ237993	Hooking Holder B	100737	2
22-5	ZW203218	Wood Screw, round head 2.7x10		4
22-6	SZ304964	Hooking #1700	AT-37	2
22-7x	ZW202375	Screw, round head 3x10		8
22-8x	ZW231704	Claw Hinge Nut	7-1-8	4
22-9x	ZW203218	Wood Screw, round head 2.7x10		2
22-10	VM293883	Hinge #1700	AT-38	2
22-11x	ZW366197	Screw, round head 3x17		2
22-12x	ZW231715	Claw Frame Fixing Nut	7-1-7	6
22-13	SZ484806	Anti Warping Angle	RS-4007	1
22-14x	SE447873	Upper Anti Warping Part	LF-4005	2
22-15	ZW392141	Tapping Screw #1 3x8 (truss)		22
22-16	SZ439694	Case Corner Angle	KD-6031	2
22-17	SZ382217	Fan Grill	RD-A402	1
22-18x	ZW324448	Tapping Screw #1 3x10 (truss)		3
22-19	SZ369393	Speaker Grill	RCC-405	2
22-20	ZW419714	Screw, without Grooved 3x15 (truss)		8
22-21	SZ316620	MR Square Foot	MR-402	2
22-22x	ZW413886	Screw countersunk head 4x15		4
22-23x	ZW273756	M3 Nut		8
22-24x	ZW425002	Washer (SPC) D3.1x8x0.5t		8
22-25	EZ377583	Felt D9	CD-60	4
22-26	SZ477696	Accessory Parts Mt. Plate, w/shaft	RS-4004	1
22-27	EZ482207	Shield Plate	RS-4006	1
22-28x	MR436364	15 Inch Pinch Roller	MC-6014	1
22-29	MP424023	Pinch Roller (KD)	KD-1084	1

FIG. 23 PHOTO OF FINAL ASSEMBLY BLOCK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FINAL ASSEMBLY BLOCK

MECH. PANEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
23-1x	BZ478293	Mech. Panel Block Comp.	RS	1
23-2x	BZ478304	Mech. Panel Block Comp. (D)	RS	1
23-3x	BZ488261	Mech. Panel Block Comp. (D, CEE)	RS	1
23-4	SP473883	Mech. Panel B	RS-6001	1
23-5x	SP471622	Mech. Panel A (D)	RS-6001	1
23-6x	SP488160	Mech. Panel C (D, CEE)	RS-6001	1
23-7	SZ477720	Spin Plate		2
23-8	SC471633	Head Cover Base	RS-6003	1
23-9x	ZW491332	Screw, countersunk head 2.3x7		4
23-10x	ZW273690	M2.3 Nut		4

AMP. PANEL BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
23-11x	BZ478315	Amp. Panel Block Comp.	RS	1
23-12x	BZ478326	Amp. Panel Block Comp. (D)	RS	1
23-13	SP471644	Amp. Panel A	RS-6005	1
23-14x	SP471655	Amp. Panel D (D)	RS-6005	1
23-15	SM471666	Automatic Name Plate	RS-6008	1
23-16	EZ435104	Illumination Escutcheon (green)	61-5023	1
23-17	EZ426780	Illumination Escutcheon (red)	61-5023	1

FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
23-18	SZ471442	RS Side Chassis A (right)	RS-6011	1
23-19	SZ471453	RS Side Chassis B (left)	RS-6011	1
23-20	SS484740	Speaker 10F-6B	29-5-13	2
23-21	ZW366186	Screw, round head 3x12 (black)		8
23-22x	ZW413256	Washer (SPC)D3.4x7.8x0.5t		8
23-23x	ZW273756	M3 Nut		8
23-24	ER395741	Cement/R. 3W 18(K) (Wire-wound type)	35-16-2	2
23-25	ZW290250	U type Speed Nut M4 #1 (large)	6-3-2	1
23-26	ZW290248	U type Speed Nut M4 #1 (small)	6-3-1	4
23-27	SZ471464	RS Sash Mt. Plate A (right)	RS-6012	1
23-28x	SZ473872	RS Sash Mt. Plate B (left)	RS-6012	1
23-29	ZW447772	Tapping Screw 3x6 (BR)		10
23-30	SZ471475	RS Sash	RS-6013	2
23-31	ZW323728	Screw, binding head 3x5		10
23-32x	SZ471486	Panel Retainer A (right)	RS-1005	1
23-33x	SZ471497	Panel Retainer B (left)	RS-1005	1
23-34x	ZW200610	Tapping Screw #1 4x12 (truss)		4
23-35	SM471510	Cassette Name Plate	RS-1214	1
23-36x	ZG473905	Adjust Spring 2 (Cassette/Amp.)	RS-1106	1
23-37x	SZ471521	Reinforcement Plate (Cassette)	RS-2005	1
23-38x	ZW200676	Tapping Screw #2 3x6 (countersunk)		1
23-39	SM471543	Jack Name Plate	RS-5013	1
23-40x	ZW477617	Washer (SPC) D2.4x4.2x0.3t		3
23-41	ZW488068	Tapping Screw #2 2.6x5 (truss)		3
23-42	BC478271	Case Block Comp.		1
23-43x	BC478282	Case Block Comp. (D)		1
23-44x	SZ377190	LM Rubber Foot	LM-404	4
23-45x	ZW419646	Washer (SPC) D4.5x9.8x0.5t		4
23-46x	ZW448288	Tapping Screw #1 4x35 (truss)		4
23-47x	ZW488327	Tapping Screw #1 4x25 (truss), w/washer		3
23-48x	ZW488338	Tapping Screw #1 4x25 (truss), w/washer		4
23-49x	ZW259560	Washer (BSP) D3.3x5.8x0.25t		4
23-50	ZW201148	Screw, truss head 3x6		4
23-51	SC471554	Head Cover	RS-6004	1
23-52	SM471565	Head Cover Name Plate A	RS-6015	1
23-53x	SM471576	Head Cover Name Plate D (D)	RS-6015	1
23-54x	ZW201150	Screw, truss head 3x6 (black)		2
23-55x	MP424023	Pinch Roller (KD)	KD-1084	1
23-56	SK465197	Pinch Roller Cap	MC-6017	1
23-57	SK471587	Mech. Knob	RS-6009	2
23-58x	SK486055	RS Mech. Knob Screw	RS-6021	2
23-59x	ZW260166	Washer (Nylon) D6.2x13x0.125t		2
23-60	SK314100	Pause Knob B	MR-612	1
23-61x	ZW433001	Set Screw, hexagon socket 3x5 (cup)		1
23-62	ZW201150	Screw, truss head 3x6		4
23-63x	ZW259560	Washer (BSP) D3.3x5.8x0.25t		4
23-64x	SK471532	Amp. Knob C (D)	RS-6010	2
23-65	SK361956	Amp. Knob B	10R-639	2
23-66x	ZW492928	Set Screw, hexagon socket 3x7 (cup)		2
23-67	SK361945	Amp. Knob A	10R-638	2
23-68x	ZW492917	Set Screw, hexagon socket 3x5 (cup)		2
23-69x	ZW483208	Washer (Nylon) D8.5x20x0.5t		2
23-70x	EF304626	Fuse ST-4 1A	39-1-28	1
23-71	MY436307	Capstan	MC-6010	1
23-72	ZW436353	Capstan Set Screw	MC-6012	1
23-73	MR436364	15 Inch Pinch Roller	MC-6014	1
23-74x	EF277402	Fuse ST-2 1A	39-1-26	1
23-75x	EF338387	Fuse ST-2 1.5A	39-1-26	1
23-76x	EF304626	Fuse ST-4 1A	39-1-28	1

INDEX

Parts No.	Ref. No. & Symbol No.
BA478056	20-29x
BA478350	19-1x
BA478350	21-6
BA478361	19-2x
BA478361	21-7x
BA478427	14-1x
BA478451	16-1x
BA478451	20-58
BA478462	13-1x
BA478462	20-51
BA478473	13-2x
BA478473	20-52x
BA478484	17-1x
BA478484	20-60
BA478528	18-1x
BA478528	21-22
BA478574	10-20
BA478574	15-1x
BC369720	6-110
BC371428	18-2
BC478271	22-1x
BC478271	23-42
BC478282	22-2x
BC478282	23-43x
BC867126	22-3
BF478618	4-1x
BH478372	1-1x
BH478530	7-1x
BL204445	3-26x
BL204658	6-119
BL478607	5-30x
BM478585	3-1x
BP478337	21-1x
BP478348	21-2x
BP488272	21-3x
BP510243	21-4x
BR364037	2-1x
BR364048	2-2x
BS478596	5-1x
BT247746	13-T1
BT471688	21-14
BT471690	21-15x
BT471712	21-16x
BT499915	21-17x
BZ363960	8-1x
BZ373972	12-41
BZ478293	23-1x
BZ478304	23-2x
BZ478315	23-11x
BZ478326	23-12x
BZ478394	10-1x
BZ478405	11-1x
BZ478416	10-10x
BZ478495	20-56
BZ478541	12-9x
BZ478552	9-1x
BZ478563	12-1x
BZ484773	6-1x
BZ488261	23-3x
EA449460	20-10
EA471418	11-10
EA472138	20-30
EA473850	1-20
EA479384	10-12
EA488856	20-26
EA488867	12-84
EC220151	13-C19
EC220151	13-C29
EC220364	13-C22
EC220465	13-C27
EC220590	13-C5
EC220590	13-C14
EC220678	15-C401
EC220994	13-C8
EC220994	13-C16
EC220994	13-C24
EC220994	18-C4
EC246137	15-C402
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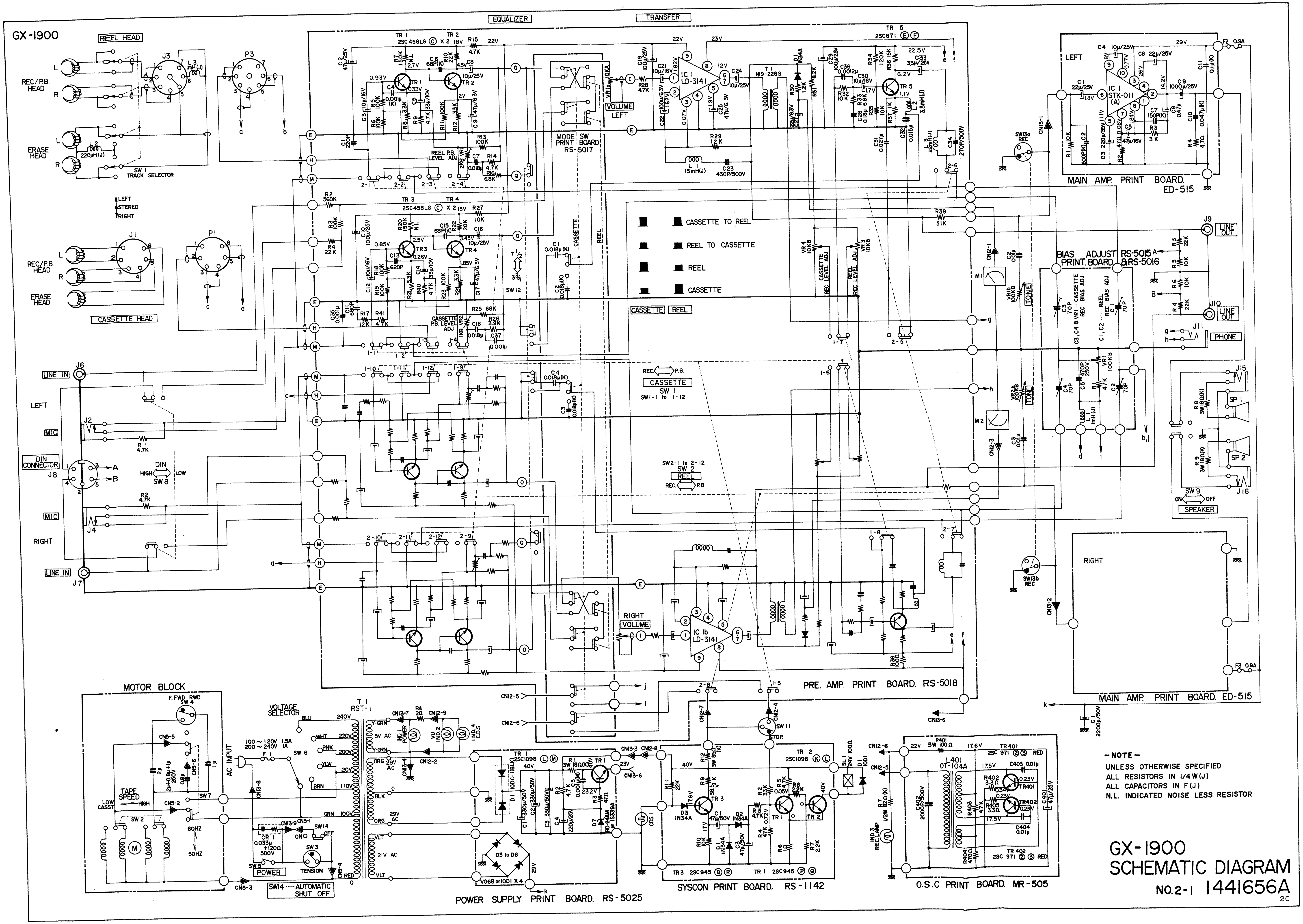
ZW413741	12-20x
ZW413741	21-10x
ZW413886	22-22x
ZW413921	3-17
ZW414033	12-22x
ZW414044	6-23x
ZW414055	6-33x
ZW414066	6-34
ZW414235	7-15
ZW414246	7-16
ZW415956	12-99
ZW416687	5-18
ZW417025	1-4x
ZW417025	11-21
ZW417137	8-15x
ZW417137	12-86x
ZW417137	12-104
ZW417137	20-34
ZW417137	21-21x
ZW417227	12-27x
ZW417273	8-9
ZW417273	9-10
ZW417273	11-13x
ZW417306	11-39
ZW419646	23-45x
ZW419714	22-20
ZW419782	16-3
ZW419782	20-59
ZW424056	3-9
ZW425006	22-24x
ZW425103	1-16
ZW425114	1-15
ZW427026	3-11
ZW427037	3-3
ZW427048	12-13
ZW429276	12-72
ZW432843	6-114
ZW433001	23-61x
ZW434160	2-45
ZW434171	2-31
ZW434193	5-15x
ZW434215	5-14x
ZW436353	23-72
ZW437545	5-35
ZW440291	6-30
ZW442585	20-33
ZW446984	18-8
ZW447772	10-19
ZW447772	18-4
ZW447772	20-8x
ZW447772	20-64x
ZW447772	21-8x
ZW447772	23-29
ZW447840	11-43
ZW448288	23-46x
ZW461935	12-8
ZW462194	20-39x
ZW462835	6-78x
ZW462846	6-79x
ZW464692	12-3
ZW464692	12-30
ZW464747	11-49x
ZW465254	8-12
ZW474581	12-32x
ZW476987	3-22
ZW477450	6-106x
ZW477461	6-107x
ZW477617	23-40x
ZW477876	1-8
ZW477887	1-19
ZW479463	4-16x
ZW483208	23-69x
ZW484738	10-15x
ZW484738	20-28x
ZW484762	11-9x
ZW485728	12-98x
ZW486268	11-5
ZW488068	23-41
ZW488327	23-47x
ZW488338	23-48x
ZW491332	23-9x
ZW492928	23-66x
ZW499454	11-55

SECTION 3

SCHEMATIC DIAGRAM

1. GX-1900 SCHEMATIC DIAGRAM
2. GX-1900D SCHEMATIC DIAGRAM


GX-1900
REEL HEAD
REC/P.B. HEAD
ERASE HEAD
L
R
J3
P3
L 2 220μH (J)
L 3 1mH (J)
SW 1 TRACK SELECTOR
LEFT
STEREO
RIGHT
J1
P1
CASSETTE HEAD
EQUALIZER
TRANSFER
TR 1 2SC458LG Ⓒ X 2
TR 2
TR 3 2SC458LG Ⓒ X 2
TR 4
REEL P.B. LEVEL ADJ
CASSETTE P.B. LEVEL ADJ
MODE SW PRINT BOARD RS-5017
VOLUME LEFT
RIGHT VOLUME
IC 1 LD-3141
IC 1b LD-3141
T 1 N19-228S
TR 5 2SC871 Ⓔ Ⓕ
L 1 15mH (J)
C23 430P/500V
L 2 3.3mH (J)
L 3 22mH (J)
C34 270P/500V
CASSETTE TO REEL
REEL TO CASSETTE
REEL
CASSETTE
SW 12
7 1/2
3 3/4
REC P.B.
CASSETTE
SW 1 SW1-1 to 1-12
SW2-1 to 2-12 SW 2
REEL
REC. P.B
VR 4 10KB CASSETTE REC LEVEL ADJ
VR 3 10KB REEL REC LEVEL ADJ
M 1
M 2
VR 1b 100KB TONE
VR 2b 100KB TONE
SW13a REC
SW13b REC
CN13-1
CN13-2
MAIN AMP. PRINT BOARD. ED-515
IC 1 STK-011 (A)
F2 0.9A
F3 0.9A
BIAS ADJUST RS-5015 A PRINT. BOARD B RS-5016
C3 70P CASSETTE REC BIAS ADJ
C1 70P REEL REC BIAS ADJ
VR 1 100KB
L 1 1mH (J)
J9 LINE OUT
J10 LINE OUT
J11 PHONE
J15
SP 1
SP 2
J16
R 8 3W 8Ω (K)
R 9 3W 8Ω (K)
SW 9 ON OFF SPEAKER
RIGHT
MAIN AMP. PRINT BOARD. ED-515
LINE IN J6
LEFT
MIC J2
R 1 4.7K
DIN CONNECTOR J8
DIN HIGH SW 8 LOW
A
B
MIC J4
R2 4.7K
RIGHT
LINE IN J7
PRE. AMP. PRINT BOARD. RS-5018
C 1 2200μ/50V
MOTOR BLOCK
F.FWD RWD SW 4
CN5-5
CN5-6
TAPE SPEED LOW CASST HIGH
SW 2
M
SW 7
CN5-2
60HZ
50HZ
CN5-3
SW 5 POWER
SW14 ···· AUTOMATIC SHUT OFF
TENSION
SW 3
CN5-4 RED
AC INPUT
100 ~ 120V 1.5A
200 ~ 240V 1A
F 1
SW 6
VOLTAGE SELECTOR
T 1 RST-1
BLU 240V
WHT 220V
PNK 200V
YLW 120V
BRN 110V
GRN 100V
Y-GRN 5V AC
ORG 29V AC
BLK
ORG 29V AC
VLT 21V AC
VLT
IND 1 POWER
IND 2 VU
IND 4 C.D.S
CN13-7
CN12-9
CN13-4
CN12-2
CN13-8
CN13-9
CN5-1
SW14 ON OFF
CR 1 0.033μ +120Ω 500V
POWER SUPPLY PRINT BOARD. RS-5025
TR 1 2SC1098 Ⓛ Ⓜ
D3 to D6 V06B or 10D1 X 4
CN12-5
CN12-6
CN13-6
SW 11 STOP
SYSCON PRINT BOARD. RS-1142
TR 2 2SC1098 Ⓚ Ⓛ
TR3 2SC945 Ⓠ Ⓡ
TR 1 2SC945 Ⓟ Ⓠ
CDS 1
SL 1 24V 100Ω
IND 3 REC LAMP
O.S.C PRINT BOARD. MR-505
TR401 2SC 971 ② ③ RED
TR 402 2SC 971 ② ③ RED
L401 OT-104A
R401 3W 100Ω
C402 2000P/500V
C401 47μ/25V

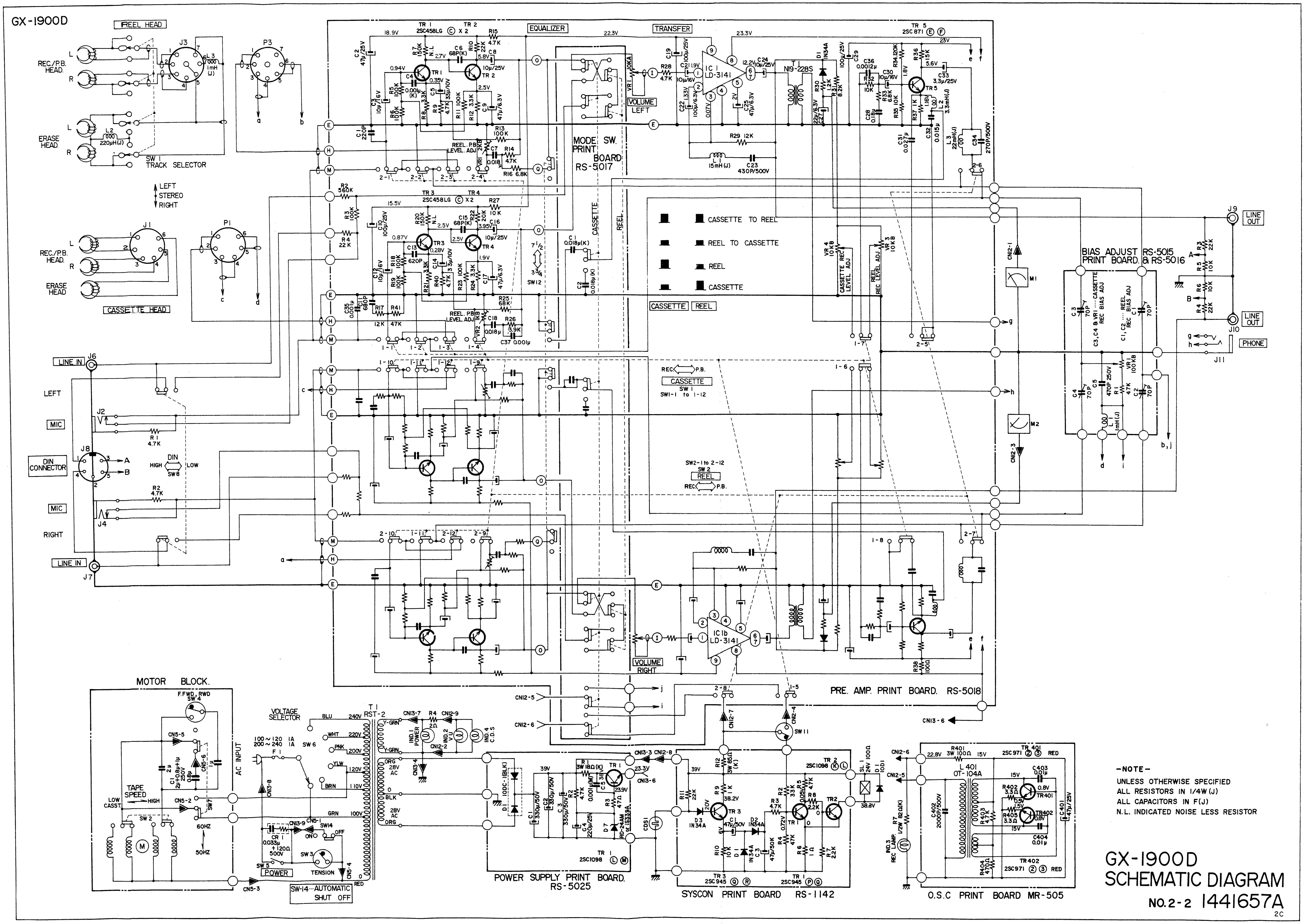
- NOTE -

UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN 1/4 W (J)
ALL CAPACITORS IN F (J)
N.L. INDICATED NOISE LESS RESISTOR

GX-1900 SCHEMATIC DIAGRAM

NO.2-1 1441656A

2C


GX-1900D
REEL HEAD
REC./P.B. HEAD
ERASE HEAD
SW 1 TRACK SELECTOR
LEFT
STEREO
RIGHT
CASSETTE HEAD
J1
J3
P1
P3
EQUALIZER
TRANSFER
TR 1 2SC458LG Ⓒ X 2 TR 2
TR 3 2SC458LG Ⓒ X 2 TR 4
TR 5 2SC871 Ⓔ Ⓕ
IC 1 LD-3141
IC 1b LD-3141
VOLUME LEFT
VOLUME RIGHT
MODE SW. PRINT BOARD RS-5017
REEL P.B LEVEL ADJ
CASSETTE
REEL
CASSETTE TO REEL
REEL TO CASSETTE
CASSETTE REC LEVEL ADJ
REEL REC LEVEL ADJ
BIAS ADJUST RS-5015 PRINT BOARD. & RS-5016
C3, C4 & VR1 ..... CASSETTE REC BIAS ADJ
C1, C2 ..... REEL REC BIAS ADJ
LINE OUT
J9
J10
PHONE
J11
LINE IN
J6
J7
MIC
J2
J4
DIN CONNECTOR
J8
HIGH DIN LOW SW8
REC ⇔ P.B.
CASSETTE SW 1 SW1-1 to 1-12
SW2-1 to 2-12 SW 2 REEL REC ⇔ P.B.
M1
M2
PRE. AMP. PRINT BOARD. RS-5018
MOTOR BLOCK.
F.FWD, RWD SW 4
TAPE SPEED
LOW CASST
HIGH
AC INPUT
VOLTAGE SELECTOR
100~120 1A 200~240 1A
SW 6
T 1 RST-2
TENSION
SW 3
SW 5 POWER
SW-14 ··· AUTOMATIC SHUT OFF
IND.1 POWER
IND.2 VU
IND.4 C.D.S
POWER SUPPLY PRINT BOARD. RS-5025
TR 1 2SC1098 Ⓛ Ⓜ
SYSCON PRINT BOARD RS-1142
TR 3 2SC945 Ⓠ Ⓡ
TR 1 2SC945 Ⓟ Ⓠ
TR 2SC1098 Ⓚ Ⓛ
SL 1 24V 100Ω
SW 11
REC LAMP
O.S.C PRINT BOARD MR-505
L 401 OT-104A
TR 401 2SC971 ② ③ RED
TR 402 2SC971 ② ③ RED
CN13-6
CN12-5
CN12-6

-NOTE-

UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN 1/4W (J)
ALL CAPACITORS IN F(J)
N.L. INDICATED NOISE LESS RESISTOR

GX-1900D SCHEMATIC DIAGRAM

NO.2-2 1441657A

2C